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Faculty Senate Minutes 1998 - 1999

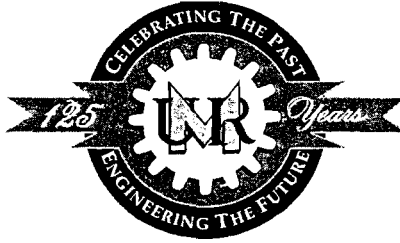
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University of Missouri-Rolla
Academic Council

Memorandum

To: Chancellor John Park

From: Bruce Selberg
Chair, RP&A *Bruce*

Date: September 9, 1998

Subject: Vice Chancellor Evaluations

The Rules, Procedures, and Agenda Committee would like to encourage you, in relation to the upcoming administrative review, to provide all participating faculty/staff access to evaluating all four vice chancellors. This enables those who have had experience with one or the other of the vice chancellors to provide you with relevant and significant data for the review.

The committee would also like to encourage you to see that the results of the administrative review be handled in a manner consistent with the handling of the students' faculty evaluations (CETs). That is, the administrative review data should be no less available to campus scrutiny than are student evaluations.



**Department of Mechanical and Aerospace
Engineering and Engineering Mechanics**

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Memorandum

To: Chancellor John Park

From: Bruce Selberg

Date: September 9, 1998

Subject: Committee Appointments

During the last academic year the Academic Council officers discussed with you the concept of changing the elections for the various campus committees from the beginning of the fall semester to the end of the previous spring semester. This was proposed to allow the campus committees to function as soon as the fall semester begins and your appointments are made to each committee. You indicated you thought it was a good idea. Elections for the 1998-99 committees were held near the end of the winter 1998 semester.

The newly elected members are identified and all that is needed is for you to make your appointments to the various committees and then publish the committee list for 1998-99 academic year.

The Academic Council would appreciate your attention to this so that the various committees can begin meeting. Thank you for your assistance.

cc: Dennis Perry
Jerry Tien
Don Myers
Linda Manning



ACADEMIC COUNCIL

MEMORANDUM

To: Academic Council Members

From: Bruce Selberg *Bruce*

Date: September 9, 1998

Subject: Grievance Procedure Draft

Over the last two years the IFC has worked with representatives from the four campuses to address complaints and suggested changes regarding the grievance procedures. As a result of the effort, attached is a draft document on academic grievance procedures that were put together by campus representatives and the IFC. Please review the document and share with interested faculty in your unit. The draft grievance document will be on the October agenda for discussion.

The Intercampus Faculty Council has approved several proposals to amend the Academic Grievance Procedures. What follows is a listing of the proposed changes with explanatory comments. These are being distributed to the four campuses for comments and suggestions, including suggestions for other changes. Any changes to the procedures will have to be approved by the Board of Curators.

The present procedures are Section 370.010 of the Rules and Regulations and can be found on the Internet: <http://www.system.missouri.edu.unimfo/rules/grievances/370010.htm>.

Before any proposals are submitted to the Board of Curators, there will be consideration of the comments and suggestions plus negotiations with the Central Administration.

Underlining indicates words to be added, shading indicates words to be deleted. The page and line references in parentheses are to an IFC draft dated June 30, 1998, and do not refer to the procedures as set out in the Rules and Regulations.

1. Opening paragraph (page 1, lines 14-20).

Accordingly, the members of the faculty as defined in the rules and regulations, Section 310.020 A, including faculty who hold an administrative title or function, are encouraged to use this grievance procedure as to any matter relating to their status or activities as faculty members. However, it is not to be used in connection with a matter relating to any administrative title or function which the faculty member may also have had.

The added words are for clarification, to make it clear that a faculty member who also has administrative duties can use the procedures as to matters relating to the person's faculty status. The sentence that is deleted is not incorrect, but is deleted to put the emphasis on the material that is added.

2. §A.1. (page 1, lines 28-30).

There has been a violation, a misinterpretation, an arbitrary or discriminatory application of University policy, regulation, or procedure which applies personally to the faculty member, notwithstanding that it may apply to others within or without the grievant's unit, relating to the privileges, responsibilities, or terms and conditions of employment as a member of the faculty, or

This is part of the definition of the definition of a grievance. The added words are for clarification, to make it clear that "personally" does not mean that the complaint applies only to one person.

3. §F.1. (page 2, lines 26-27).

The faculty member may process a grievance through the several steps of the procedure during normal working hours. He or she may have an adviser chosen from the campus community at any stage. The respondent will also be afforded that option.

This deals with having an adviser. The present version refers only to the grievant. The added words make no change but make it clear that the respondent is also entitled to have an adviser throughout the process.

4. §F.5. (page 3, lines 42-46; page 4, lines 1-6). This would add a new paragraph 5. Subsequent paragraphs in §F would be renumbered.

The grievant or respondent may request information relevant to the grievance from each other or from an appropriate administrative officer. The request should identify the documents requested or the specific information to be obtained. Such reasonable requests shall be complied with in a timely manner. If there is a dispute as to whether the request is reasonable or whether the response is timely, the matter shall be referred to the Chancellor or designee. The decision of the Chancellor or designee shall be final.

There have been complaints about grievants being unable to obtain information and documents necessary to the presentation of the grievance. This is designed to provide a process for resolving disputes as to whether a grievant or a respondent is entitled to the information.

5. §G.2.a.(1). (page 5, lines 2-17).

By October 1 of each year, a Grievance Hearing Panel shall be selected for each campus. The panel shall consist of between thirty (30) and sixty (60) faculty members on regular appointment without full-time administrative appointments. Unless otherwise provided by the campus faculty governance body, these will be faculty members on regular appointment without full-time administrative appointments. The campus faculty governance body may provide that full time faculty members on non-regular appointment without full-time administrative appointments may also be selected for the panel. The number and method of selection of such non-regular faculty members shall be determined by the faculty governance body and the Chancellor of each campus. The specific number of faculty members for the panel shall be appropriate to the needs of the individual

campus as agreed to by the faculty governance body and the Chancellor of each campus.

The present procedures limit the Grievance Hearing Panel to faculty members on regular appointment. This has created a problem on one campus where faculty members on non-regular appointment had previously been used. The proposed change would allow each campus to decide whether non-regular full time faculty should be able to serve on a hearing committee. The practices and needs of the campuses differ. This allows for flexibility to handle particular campus needs. Note that allowing non-regular faculty to serve would require approval of both the faculty governance body and the Chancellor of the particular campus, and both would have to agree on the number and the method of selection.

6. §G.2.a.(2). (page 5, lines 36-37 and 41-42).

The Hearing Panel shall have a rotating membership. Each member of the Hearing Panel shall serve a three-year term. At the end of each academic year, both the faculty governance body and the Chancellor shall choose new Panel members to replace the 1/3 whose terms will expire on ~~August 31~~ September 30. Half of the new Panel members shall be chosen by the faculty governance body and half shall be chosen by the Chancellor in accordance with 1.a. above. A member's term shall expire on ~~August 31~~ September 30 of the third year unless he/she is serving at that time on a Hearing Committee still in the process of reviewing an unresolved grievance. In such case, the member's term shall expire as soon as the committee has submitted its written report of the findings and recommendations to the Chancellor.

The change from August 31 to September 30 as the date for expiration of terms of the members of Hearing Panel is to make this consistent with §G.2.a.(1) which provides for the Hearing Panel to be selected by October 1.

7. §G.2.a.(3). (page 6, lines 7-20). This adds a new paragraph (3).

If the faculty governance body and the Chancellor agree that a temporary increase in the size of the Grievance Hearing Panel is needed, additional faculty members may be appointed. Such appointments shall be temporary and shall end on September 30 of the next academic year unless the temporary member is serving at that time on a Hearing Committee still in the process of reviewing an unresolved grievance. In such case, the member's term shall expire as soon as the committee has submitted its written report of the findings and recommendations to the Chancellor.

This is new. On one campus an unusually high number of grievances were filed during a particular year. This made it difficult, if not impossible, to complete hearings in a reasonable time without putting an undue burden on the members of the hearing panel. This addition would allow a campus in such a situation to temporarily increase the number of faculty members on the hearing panel to enable prompt disposition of grievances.

8. §G.2.b.(2). (page 8, lines 38-39).

Upon formation of the Hearing Committee, the Chancellor shall advise the grievant and the respondent of the membership of the Hearing Committee.

The present rules provide that upon "formation of the Hearing Committee, the Chancellor shall advise the grievant of the membership of the Hearing Committee." There is no reason not to provide the names of the members of the Hearing Committee to the respondent at the same time.

9. §G.2.b.(3)(c). (page 10, lines 7).

The grievant and the respondent shall provide any materials each initially intends to submit in support of their respective case to the chairperson of the Hearing Committee at least ~~24~~ 72 hours before the hearing.

The time period for providing the Hearing Committee with materials would be increased from 24 hours to 72 hours to give the Committee a longer period to examine them before the hearing begins.

10. §G.2.b.(3)(d). (page 10, lines 21-25).

At the request of the respondent the Hearing Committee shall review the statement of charges and other information to determine if there is probable cause to believe that a grievance, as defined in Section 370.010.A, exists. In making this determination, the Hearing Committee may ask the grievant and respondent to furnish additional information including a statement of the evidence proposed to be offered. No decision on the question of whether probable cause exists shall be made without giving both the grievant and the respondent the opportunity to be heard on the question.

This deals with the procedures when a respondent in effect moves to dismiss a grievance on the grounds of lack of probable cause. The added language is to insure that both parties have an opportunity to be heard on the question of whether there is probable cause to proceed before the decision is made.

11. §G.2.b.(3)(d). (page 10, lines 39-42).

The burden of proof shall be on the grievant. The level of proof shall be the same as in a civil law suit, that the grievant's claim is "more believable than not."

The present rules simply state that the burden of persuasion is on the grievant, but it does not provide a standard. The additional language is to insure that a hearing committee does not mistakenly apply a "beyond a reasonable doubt" standard.

12. §G.2.b.(3)(d). (page 11, lines 3-6).

All records made and all data gathered by the Hearing Committee shall be confidential and shall be maintained by the committee for the duration of the Hearing. At the conclusion of the hearing, all materials shall be delivered to the Chancellor's Office. The records shall remain be closed to public scrutiny unless subpoenaed.

This is for clarification and to allow the faculty member who chairs the hearing committee to be able to get the materials out of his or her office.

13. §G.2.b.(3)(e). (page 11, lines 10 and 15-23).

Except as provided below, The the grievant (and adviser) and the respondent (and adviser) may both be present during the hearing. Other persons shall not be present except when invited by the Hearing Committee. A witness may request that neither the grievant nor the respondent nor their advisors be present during the witness' testimony. Such request may be granted for good cause. The Hearing Committee should hear the witness' explanation for the request in private to determine whether to grant the request.

Under the procedures prior to 1995 (when the present procedures were adopted) the grievant or the respondent could object to the presence of the other with the result that both would be excluded from the hearing except while testifying. This was believed to be unfair to the parties as it allowed the Hearing Committee to decide the matter on information not known to the parties and without their having any opportunity to explain or contradict such information. The 1995 procedures provided that both could be present during the hearing. Some viewed this as unsatisfactory as it was believed that some witnesses, particularly staff, would be reluctant to testify in the presences of a person who was his or her immediate superior, and this would prevent the Hearing Committee from getting full and accurate testimony from the witness. The proposal is an attempt to find a middle ground by allowing a witness to request that the parties

not be present during the witness' testimony. There is no perfect solution to the problems, but this may be better than the present rules without denying the parties the opportunity to hear all of the witnesses.

14. §G.2.b.(3)(g). (page 12, line 8).

Upon completion of its hearing, the Hearing Committee shall immediately notify the grievant, the respondent, and the Chancellor of that fact. Such notification shall include a designation of all witnesses, documents, and other evidential material considered by the Hearing Committee and shall inform the parties that they will be given an opportunity to review the records and within seven (7) days, upon good cause shown, to present additional evidence.

This would permit the grievant and the respondent to review the records in order to determine if either would like to present additional evidence. Note that the "records" do not include the closed deliberations of the Hearing Committee.

15. §G.2.b.(3)(j). (page 12, line 46 and page 13, lines 1-4).

The Chancellor, after having received the report of the Hearing Committee, may meet with the grievant or the respondent. The Chancellor shall make a determination of the matter and shall advise the grievant and the respondent in writing of that determination within a reasonable time. If it is not practical for the determination to be made within thirty (30) days, the grievant and the respondent shall be so informed and should also be informed of the approximate date when the decision will be made.

The present rules require that the Chancellor inform the grievant if the Chancellor's decision would not be made within 30 days. There is no reason not to provide the respondent with the same information. The additional language adds that if the decision will not be made within 30 days, the Chancellor should also inform the parties of when the decision is expected to be made.

16. §G.3.b. (page 13, lines 36-37).

Within a reasonable time after the filing of the appeal, the President shall send a certified letter indicating the disposition of the grievance to the grievant and the appropriate administrative officers. If it is not practical for the determination to be made within thirty (30) days, the grievant and respondent shall be so informed and should also be informed of the approximate date when the decision will be made. The decision of the President shall be final.

This is similar to the change in §G.2.b.(3)(j) but deals with decisions by the President after an appeal and provides that the President inform the parties of when the decision is expected to be made when it will not be made within 30 days.

17. §H. (page 13, line 41).

In the event a grievance by a faculty member is charged against an UM administrator or a Chancellor, the same procedure shall be followed with the following modifications:

The current rules do not provide for a process if a grievance is filed against a Chancellor. This provides the procedures to be adjusted accordingly.

18. One other matter under consideration by the Intercampus Faculty Council is whether to add a section either requiring or strongly urging that a training session be held each year for new panel members. Such a training session would include instruction on how to conduct a hearing and provide an opportunity to answer questions before any hearings are held.

Passed September 30, 1998

Resolution 9899R3

Resolution Toward Further Student Input on Tenure of Professors

WHEREAS, the UMR Student Body wants more student input on tenure of professors, and

WHEREAS, the following information encourages student input in the tenure process assuming it is collected in the correct fashion,

“Teacher evaluation questionnaires are often very helpful, especially if buttressed by the chairman’s or dean’s interpretation of the data and by comparative data.”

Past President Olsen’s memo titled “University of Missouri Systemwide perspectives on Promotion and Tenure”

<http://www.umn.edu/~ac-afrs/olson.html>

“Letters from former students, departmental colleagues, research collaborators or former mentors cannot be considered to be objective and unbiased, however well-intended, and may therefore detract from the recommendation.”

Past President Olsen’s memo titled “University of Missouri Systemwide perspectives on Promotion and Tenure”

<http://www.umn.edu/~ac-afrs/olson.html>

“Letters intended to truly be external references should be solicited by either the dean’s office or the department chair’s office utilizing names supplied by an independent third party other than the candidate.”

UMR Academic Affairs Office “Comments Concerning Letters of Support”

<http://www.umn.edu/~ac-afrs/documentation.html>

“Student letters of support are of value if they are solicited by a third party under controlled conditions. If used to document teaching effectiveness, student letters must be collected in a manner which is statistically meaningful...”

UMR Academic Affairs Office “Comments Concerning Teaching Performance”

<http://www.umn.edu/~ac-afrs/documentation.html>

“The department chair’s comments are, perhaps, the single most important part of the dossier. The effort involved is large, but the promotion and tenure decisions have a critical impact on the future of the department.”

UMR Academic Affairs Office “Comments Concerning the Narrative Report by the Department Chair”

<http://www.umn.edu/~ac-afrs/documentation.html>

“Evidence of teaching quality should be presented. Candidates are encouraged to show evidence in addition to the computer-processed student assessments. However, the value of this evidence is compromised unless it is obtained in a method which demonstrates impartiality. Extensive documentation should be included in a separately bound appendix.”

UMR Academic Affairs Office “Comments Concerning Teaching Performance”

<http://www.umn.edu/~ac-afrs/documentation.html>

“However, it should be recognized that there are certain indicators that point to good teaching. Good teachers receive public recognition in a variety of ways. Students, both individually and through organizations, seek them out more often. They make more innovative contributions in courses, sometimes whole curricula. Their students demonstrate achievement in learning. They often serve on more student committees and carry heavier advising loads. In short they are known for their enthusiasm and involvement in the educational process of students. Any evidence which truly documents such contributions is strongly encouraged.”

Past President Olsen’s memo titled “University of Missouri Systemwide perspectives on Promotion and Tenure”

<http://www.umn.edu/~ac-afrs/olson.html>

WHEREAS, students often don’t realize the impact of an instructor on their education and/or career and/or life until later after a class is completed, and

WHEREAS, it is feasible for the registrar to send department chairs a list of past students that a professor had so that a department chair could receive a statistically meaningful amount of information, and

WHEREAS, it is also feasible for the chair to survey and request letters of reference from a pre-selected list of students from the registrar’s office, and

WHEREAS, it would be mutually beneficial for the University and the Student Body to provide this information to those reviewing the dossier in the consideration of a professors tenure and/or promotion;

THEREFORE, be it resolved that the Student Council of the University of Missouri – Rolla request that student input on tenure and promotion be furthered by the following supplications. The registrar’s office shall be notified when a professor is coming up for tenure by the appropriate department. It shall be the registrar’s duty to compile a list of students for that department’s chair. The only restrictions on the selection are 1. It is a random selection, 2. There are enough students on the list so that it is statistically meaningful, 3. It is a mixture of undergraduates, graduates, and alumni, and 4. That the professor instructed the students selected for a full semester. The department chair is then responsible for collecting information from the selected students about the professor up for tenure. It is recommended that the department chair

use a survey to poll the students and also to ask for letters of recommendation. After collecting the results of these efforts it will be his/her responsibility to include and narrate on the results of the surveys and the content of the letters in the dossier. The University of Missouri – Rolla Student Body also feels that the Promotion and Tenure Committee, the Vice Chancellor for Academic Affairs, and the Chancellor put special consideration into the survey results and letters of recommendation gathered by the department chair. It is also recommended that the Vice Chancellor for Academic Affairs, the Promotion and Tenure Committee, and the Chancellor develop the appropriate campus standard for polling selected students. The University of Missouri – Rolla Student Body feels that this resolution should become university policy.

Respectfully submitted,

Cody May
University Relations Chairman



INTEROFFICE MEMORANDUM

University of Missouri-Rolla

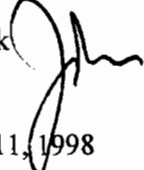
Office of the Chancellor

206 Parker Hall

Phone: 573) 341-4114 FAX: 573) 341-6306

e-mail: parkj@umr.edu

TO: Academic Council Officers

FROM: John T. Park
Chancellor 

DATE: November 11, 1998

RE: Assessment Tests for UMR Students

We spoke earlier concerning the assessment tests for UMR students. Since speaking to you, I have briefly discussed the assessment problems with a group of student leaders. These leaders share our interest in obtaining accurate results on the assessment exam and offered several suggestions.

1. More flexible time for test taking.
2. Attempting to find shorter general education exam.
3. Providing as an incentive, priority registration based on the score the students achieve on the general education exam.
4. Placing test scores on the transcript.
5. Providing tutoring for students taking the examinations.
6. Asking the faculty to emphasize the importance of the results during classes and advising periods.
7. Requiring the review of the test results with the academic advisor and requiring remedial assignments if appropriate.

The UMR student representatives indicated a strong interest in working with the Academic council to solve the problem of assessment test score results which do not represent the true ability of our students. These leaders recognize that real marks on these tests damage the reputation of the school and, by implication, lower the value of their degree. I am confident that the student leaders would be very interested in working with the Academic council on this issue. The Student Council contact on this issue would be Joe Schmidberger.

JTP:chg

cc: Walt Gajda
Wendell Ogrosky
Joe Schmidberger



INTEROFFICE MEMORANDUM

University of Missouri-Rolla

Office of the Chancellor

206 Parker Hall

Phone: 573) 341-4114 FAX: 573) 341-6306

e-mail: parkj@umr.edu

TO: Department Chairs

FROM: John T. Park
Chancellor

DATE: April 2, 1999

RE: Academic Council Adoption of Student Council Resolution #9697R7

Examinations should serve as both an opportunity for evaluation and for learning. The Academic Council resolution which requires that all hourly examinations and papers be scored and returned by the last day of class, recognizes that the scored examinations provide a significant learning experience.

I would like to take this opportunity to remind you of the Academic Council resolution and to ask you to remind teachers in your unit of their responsibility to use all examinations as well as the final examination as learning opportunities.

A copy of the Academic Council resolution is attached. UMR's students strongly support the resolution. The perception that some teachers are unsympathetic to students' needs for feedback in the learning process is a significant source of student dissatisfaction. Please be sure that all teachers are aware of the Academic Council's resolution and of their responsibility to promote student learning through the examination process.

JTP:chg

cc: Student Council
Academic Council
Dean Russell Buhite
Dean Robert Mitchell
Dean Lee Saperstein

RECOMMENDATION #5

The registrar's office shall maintain a list indicating which UMR courses are 'repeatable'. The content of the list will be controlled by the Curriculum Subcommittee of the Academic Council.

Rational. This recommendation is only necessary if recommendation #4 is passed.

The following Resolution was referred to the Admissions and Academic Standards Committee:
Student Council Resolution #9697R8

Whereas: 7:30 finals are too early in the day for most students to feel comfortable taking an exam Whereas: Students are often awake late into the night preparing for a 7:30 exam which causes a drop in exam scores Therefore: Be it resolved that student council supports the removal of 7:30 finals.

The Admissions and Academic Standards Committee does not support this resolution. The committee recognizes a standard working day as extending from 8 AM until 5 PM. The registrar's office informs us that it is not possible to schedule all examinations during this time and currently begins finals at 7:30 AM, and all exams are completed by 5:30 PM. The committee believes the current solution is the most reasonable, given the constraints of the problem.

✶ The following Resolution was referred to the Admissions and Academic Standards Committee:
Student Council Resolution #9697R7

Whereas: The average UMR student is overburdened with tests, homework, and projects the last week of the class preceding finals Whereas: Currently no "buffer" exists, allowing only the weekend to prepare for one's finals Whereas: This policy is not academically sound because students are not allowed enough time to adequately prepare for their finals Whereas: Removing all tests and homework on the last class period of the semester would allow for more time to prepare for finals and students would have all the materials needed from which to study Therefore: Be it resolved that the UMR student council supports an act of Academic council that would require instructors to return all tests and homework assignments, graded and/or corrected by their last class period of the semester in order to keep the last class period of each course free for review.

The Admissions and Academic Standards Committee does not support this resolution. The committee views this resolution as an unnecessary infringement on the academic freedom of instructors.

X-From : gajda@ece.umn.edu Fri Oct 30 10:36:58 1998
Date: 30 Oct 1998 10:40:15 U
From: "gajda" <gajda@ece.umn.edu>
Subject: referral
To: "Dennis Perry" <dperry@umn.edu>

I just had a conversation with the parent of a UMR freshman, who took several university courses while in high school and had them transferred to UMR. However, the GPA for these courses is 2.33. This troubles both the parent and the student. The student's parent states that other institutions leave it to the discretion of the students if they want the grades of transfer credit included in their GPA.

Given the likely increase in the number of credit hours being transferred by entering freshmen in the future, I am referring this matter to the academic council for consideration.

There would appear, at least to me without great consideration, to be three options.

- 1) affirm the current policy - all transfer credit carry the grades earned
- 2) transfer credit be given without carrying the grades earned along
- 3) the student have a choice of whether the grade be recorded.

I would be happy to discuss the matter with the council, a committee, or the leadership as you deem appropriate.

Walt Gajda

{ Kurt Kosbar
(Admiss./Ac. St. Comm.) }

MOTION REGARDING COMMUNICATION ACROSS THE CURRICULUM
TO BE PRESENTED AT THE JUNE 17, 1999, ACADEMIC COUNCIL MEETING

A. INTRODUCTION AND BACKGROUND INFORMATION

On March 25, 1993, the UMR Academic Council passed an amended form of the General Education requirement related to writing and speaking skills as follows:

Each curriculum is to include English 20 as a required course. Each department is to develop a plan which will provide students with opportunities to enhance their writing and speaking skills through at least two writing-intensive and/or oral communications courses; at least one of which should be in the student's major. Methods of evaluating students' communication skills are to be included in the plan.

Since the passage of the above requirement, the Task Force on Communications Across the Curriculum issued a 1994 report, the Center for Writing Technologies was established and staffed, and a number of departments developed Writing Emphasized courses. Dr. Gajda established an Implementation Committee for Communication Across the Curriculum, which has been working for some time on the implementation, certification, and monitoring of this specific Communications component of the General Education requirements. The Implementation Committee in 1998 passed a resolution asking the UMR administration to support staffing an Oral Communications initiative in the Excel Center for Leadership and Communication Studies, parallel to efforts in the Center for Writing Technologies. In addition, the Implementation Committee believes it is time to move into the next phase which involves setting a date for requiring that students satisfy the Communications component of the General Education requirement, and establishing a mechanism to monitor satisfaction of the requirement.

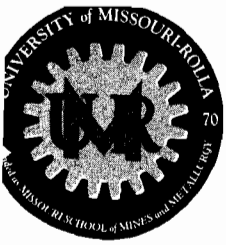
The Curriculum Committee of Academic Council reviewed a resolution from the Implementation Committee which is very similar to the motion following on the next page, and their response is given in the minutes of their April 5, 1999 meeting.

[Motion given on next page]

B. MOTION (to be proposed at the June 17, 1999, UMR Academic Council meeting)

The following requirement will be formally incorporated into each UMR undergraduate curriculum and will become effective and will apply to the Fall 2000 entering freshmen class and all subsequent catalog years. This requirement will be published in all appropriate UMR literature, including the UMR Undergraduate catalog:

Each department will provide students with opportunities to enhance their writing and speaking skills (beyond the required English 20 class) by requiring that they complete at least two Communication Intensive courses, at least one of which should be in the student's major. Communication Intensive (CI) courses may be focused on writing, speaking, or combinations thereof. Two Communications Emphasized (CE) courses may be used as the equivalent of one CI course (for example, four CE courses would substitute for two CI courses, but two of the CE courses must be in the student's major as an appropriate substitute for the one CI course in the student's major). Certification of these courses as CI or CE will occur through procedures established by the Director of the Center for Writing Technologies, the Director of the Excel Center for Leadership and Communications Studies, and the Implementation Committee for Communication Across the Curriculum. These requirements should be formally tracked and monitored by the CAPS advising system to ensure that each graduating student is meeting the Communications component of the General Education requirement as stated in this motion.



ACADEMIC COUNCIL

To: UMR FACULTY

Academic Council Meeting
Thursday, September 17, 1998; 1:30 P.M.; 204 McNutt

- I. Approval of minutes of the June 25, 1998 meeting
- II. Reports of Standing and Special Committees
 - A. Rules, Procedures, and Agenda (5 minutes) Jeff Cawlfeld
 - 1. Election of Academic Council Officers
- III. Reports and Responses
 - A. President's Report (To include IFC) (5 min.) Bruce Selberg
 - 1. Introduction of New President
 - B. Chancellor's Report John Park
- II. (continued)
 - B. Curricula (5 min.) Howard Pyron
 - 1. *Report No. 1
- IV. Old Business
 - A. Action Items*
- V. New Business and Announcements
 - A. Staff Council
 - B. Student Council
 - C. Referrals

*Information distributed with agenda to Academic Council members and department chairs.

University of Missouri-Rolla
Missouri's Technological University



Registrar's Office
103 Parker Hall
1870 Miner Circle
Rolla, MO. 65409-0970
(573) 341-4181

Memo To: Academic Council
From: UMR Campus Curricula Committee
Re: August 26, 1998, Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will be offered in the near future.

Submitted EC1's:

EC1 893, Ceramic Engineering 301, *Chemical Processes in Refractories*. Approved for WS99. 3 hours credit. No prerequisites.

EC1 894, Geological Engineering 301, *Environmental Law*. Approved for WS99. 1 hour credit. Prerequisites: Senior or Graduate Standing. (Changed from FS98 because Dr. Stevens knows this course is not being offered this FS98.)

EC1 895, English 301 ML, *Britain and Ireland Since 1945: Culture and Identity - Missouri London*. Approved for FS98. 3 hours credit. No prerequisite.

EC1 896, Geological Engineering 401, *Characterization and Analysis of Discontinuous Rock Masses*. Approved for WS99. 3 hours credit. Prerequisites: Mi Eng 231, Geo 220.

EC1 897, Geological Engineering 301, *29 CFR OSHA, 1910.120(q) Hazardous Waste Operations & Emergency Response*, Approved for SX98. (Previously approved 5-19-98 by committee via e-mail. The committee wanted the EC1 form circulated with the agenda for all departments to review.) 1 hour credit. No prerequisites.

EC1 898, Environmental Engineering 301, (Co-list with Cv Eng 301), *Remediation of Contaminated Soil and Groundwater*. Approved for WS99. 3 hours credit. Prerequisites: Cv Eng 265, Ge Eng 337, or graduate standing.

EC1 899, Civil Engineering 301, (Co-list with Env En 301), *Remediation of Contaminated Soil and Groundwater*. Approved for WS99. 3 hours credit. Prerequisites: Cv Eng 265, Ge Eng 337, or graduate standing.

EC1 900, Civil Engineering 301, *Intermediate Engineering Hydrology*. Approved for WS99. 2 hours lecture and 1 hour lab. Prerequisite: Cv Eng 233.

EC1 901, Civil Engineering 401, *Stochastic Theory of Structural Vibration*. Approved for WS99. 3 hours credit. Prerequisites: Cv Eng 424 and Math 204 or equivalent.

EC1 902, Aerospace Engineering 301, *Concurrent Engineering I*. Approved for WS99. (Co-listed with Mc Eng 301.) 3 hours credit. Prerequisites: Mc Eng 213 or Ae Eng 231, and Bas En 110.

EC1 903, Aerospace Engineering 301, *Concurrent Engineering II*. Approved for FS99. (Co-listed with Mc Eng 301.) 3 hours credit. Prerequisites: Concurrent Engineering I.

EC1 904, Mechanical Engineering 301, *Concurrent Engineering I*. Approved for WS99. (Co-listed with Ae Eng 301.) 3 hours credit. Prerequisites: Mc Eng 213 or Ae Eng 231, and Bas En 110.

EC1 905, Mechanical Engineering 301, *Concurrent Engineering II*. Approved for FS99. (Co-listed with Ae Eng 301.) 3 hours credit. Prerequisite: Concurrent Engineering I.

EC1 906, Electrical Engineering 301, *Introduction to Randomized Algorithms*. Approved for WS99. 3 hours credit. Prerequisites: Stat 217, Cmp Sc 253.

EC1 907, Chemical Engineering 301, *Pollution Prevention via Process Engineering*. Approved for WS99. 3 hours credit. No prerequisites.

EC1 908, Psychology 201, *Introduction to Human-Computer Interaction*. Approved for WS99. 3 hours credit. Prerequisite: Psych 50. (Changed from FS98 because it is not being taught.)

EC1 910, Psychology 301, *Cognitive Neuroscience*. Approved for WS99. 3 hours credit. Prerequisites: Psych 305 or 330.

EC1 911, Philosophy 201, *Philosophy of Film*. Approved for WS99. 3 hours credit. Prerequisites: Lower level (below 100) philosophy course. One suggestion of the committee was to rename the course, "Philosophy through Film."

EC1 912, Biochemistry 401, Free Radicals in Biochemistry. Approved for WS99. 3 hours credit. Prerequisites: Chem 221, 223 and Bio Sc 211. This EC1 form originally listed no prerequisites. However, a CC1 form was approved at this meeting for the same course which did have the prerequisites of Chem 221, 223 and Bio Sc 211. Dr. Robertson suggested to add the prerequisites to the EC1 form since they are the same 400 level course.

EC1 913, Economics 301, *Industrial Organization*. Approved for WS99. 3 hours credit. Prerequisite: Econ 221.

EC1 914, Education 301, Novell NetWare Advanced Administration. Approved for FS98. 2 hours credit. Prerequisite: Graduate Standing.

EC1 915, Education 301, Using Multimedia in the Classroom. Approved for FS98. 3 hours credit. Prerequisite: Graduate Standing.

EC1 916, Education 301, Introducing Educators to Computers. Approved for FS98. 1 hour credit. Prerequisite: Graduate Standing.

EC1 917, Education 301, *Computer Based Presentations*. Approved for FS98. 1 hour credit. Prerequisite: Graduate Standing.

EC1 918, Education 301, *The Internet for Educators*. Approved for FS98. 1 hour credit. Prerequisite: Graduate Standing

EC1 919, Education 301, Internet Publications/Creating Web Pages. Approved for FS98. 1 hour credit. Prerequisite: Graduate Standing

EC1 920, Education 301, Computer Applications in the Classroom.. Approved for FS98. 1 hour credit. Prerequisite: Graduate Standing

EC1 921, Education 301, Authentic Instruction for Classroom Use. Approved for FS98. 3 hours credit. Prerequisite: Graduate Standing.

EC1 922, Education 301, *Windows NT Administration*. Approved for FS98. 2 hours credit. Prerequisites: Graduate Standing.

EC1 923, Geology 301, *Current Concepts in Petrology*. Approved for FS98. 2 hours credit. Prerequisites: Geo 234. (This EC1 was added to the agenda.)

The UMR Campus Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Review of submitted CC1's

CC1 4530, Chemical Engineering 435, *Distillation and Rectification*. Approved deletion of course by Curricula Committee on June 1, 1998, for SS98. Approved by Academic Council June 25, 1998. Circulated with the agenda for all departments to be able to review.

CC1 4531, Civil Engineering 419, *Advanced Behavior of Reinforced and Prestressed Concrete*. Approved new course for WS99. 3 hours credit. Prerequisites: Cv Eng 223 with Grade of "C" or better. Description reads: Behavior of reinforced and prestressed concrete sections, members and wall/shell-type elements subjected to bending, axial load, shear and torsion. Confinement of concrete. Various truss model theories applicable to main members and strut-tie model applicable to disturbed regions, joints, and connections.

CC1 4532, Engineering Management 387, *Experimentation in Engineering Management*. Approved for FS98. Change in prerequisites from Stat 215 **"TO"** Stat 213 or Stat 215.

CC1 4533, Aerospace Engineering 350, *Integrated Product Development*. Approved new course for WS99. 2 hours lecture and 1 hour lab. Prerequisites: Ae Eng 251 or Mc Eng 208 for Design: Mc Eng 213 for Assembly: Accompanied or preceded by mc Eng 353 for Manufacturing: Eng Mg 375 or 385 for Cost/Product Support. Description reads: Students in design teams will simulate the industrial concurrent engineering development process. Areas covered will be design, manufacturing, assembly, cost, and product support. Using a 3-D solid modeling program, students will design, analyze, and send the data base to the automated machine shop where the parts will be manufactured. The parts will then be assembled, tested and analyzed for their performance. (Co-listed with Mc Eng 350 and Eng Mg 350)

CC1 4534, Mechanical Engineering 350, *Integrated Product Development*. Approved new course for WS99. 2 hours lecture and 1 hour lab. Prerequisites: Ae Eng 251 or Mc Eng 208 for Design: Mc Eng 213 for Assembly: Accompanied or preceded by Mc Eng 353 for Manufacturing: Eng Mg 375 or 385 for Cost/Product Support. Description reads: Students in design teams will simulate the industrial concurrent engineering development process. Areas covered will be design, manufacturing, assembly, cost, and product support. Using a 3-D solid modeling program, students will design, analyze, and send the data base to the automated machine shop where the parts will be manufactured. The parts will then be assembled, tested and analyzed for their performance. (Co-listed with Ae Eng 350 and Eng Mg 350).

CC1 4535, Engineering Management 350, *Integrated Product Development*. Approved new course for WS99. 2 hours lecture and 1 hour lab. Prerequisites: Ae Eng 251 or Mc Eng 208 for Design: Mc Eng 213 for Assembly: Accompanied or preceded by Mc Eng 353 for Manufacturing: Eng Mg 375 or 385 for Cost/Product Support. Description reads: Students in design teams will simulate the industrial concurrent engineering development process. Areas covered will be design, manufacturing, assembly, cost, and product support. Using a 3-D solid modeling

program, students will design, analyze, and send the data base to the automated machine shop where the parts will be manufactured. The parts will then be assembled, tested and analyzed for their performance. (Co-listed with Ae Eng 350 and Mc Eng 350).

CC1 4536, Geological Engineering 123, *OSHA 40 HR Hazwopper Course*. Approved new course for FS98. 1 hour credit. No prerequisites. Description reads: This course covers environmental health and safety considerations required by federal regulation to work with hazardous substances. The course meets training and performance standards for working at sites of uncontrolled hazardous waste and at sites requiring emergency response operations following the release of hazardous substances.

CC1 4537, Psychology 211, *Introduction to Human-Computer Interaction*. Approved new course for FS99. 3 hours credit. Prerequisite: Psych 50. Description reads: Research, theory, and practice from psychology and other social science disciplines have implications for the effective design and use of computers in organizations. This course introduces students to the psychological issues in software engineering, technology in the workplace, and organizational design.

CC1 4538, Biological Sciences 219, *Plant Biology Laboratory*. Approved new course for WS99. 1 hour course. Prerequisites: Bio Sc 112, preceded or accompanied by Bio Sc 218. Description reads: The laboratory is designed to accompany Plant Biology, Bio Sc 218, and consists of experiments that will supplement and extend the lectures in Bio Sc 218. Among the topics to be covered are diversity and classification, plant genetics, germination, plant anatomy and development, photosynthesis, plant responses to outside stimuli, plant hormones, and plant tissue culture.

CC1 4539, Geological Engineering 438, *Remedial Engineering for Uncontrolled Hazardous Waste Sites*. Approved new course for FS98. 3 hours credit. Prerequisite: Ge Eng 338. Description reads: Discussion of remediation technologies for uncontrolled hazardous waste sites applicable to various conditions of site geology, hydrology, and waste characteristics. Discussion will emphasize case histories of previous remediation actions and the design of alternate remediation technologies for an uncontrolled hazardous waste site.

CC1 4540, Psychology 330, *Neuroscience*. Approved for WS99. Change in course title from, "*Physiological Psychology*". Change in description to: The neurophysiological basis of behavior is examined. Topics covered include the structure and function of nerves and the nervous system; psychopharmacology; sleep and biological rhythms; reproductive behavior; emotion; learning and memory; communication; and psychological disorders.

CC1 4541, Computer Science 284, *Introduction to Operating Systems*. Approved for FS98. Change in prerequisites from Cmp Sc 234 or Cmp Sc 274 "**TO**" Cmp Sc 234 or Cmp Sc 274 or Cmp En 213.

CC1 4542, Computer Engineering. Approved new curriculum for FS98.

CC1 4543, Electrical Engineering. Approved changes in curriculum for FS98.

CC1 4544, Electrical Engineering 319, *Computer Process Control*. Approved deletion for FS98. (Will be replaced by Cp Eng 319 for the new curriculum.)

CC1 4545, Electrical Engineering 061, *Circuits I*. Approved deletion for FS98. (El Eng 061 is no longer offered. It has been replaced by El Eng 151.)

CC1 4546, Electrical Engineering 062, *Pspice*. Approved deletion for FS98. (El Eng 062 has been incorporated into El Eng 152 and 154.)

CC1 4547, Electrical Engineering 063, *Circuits II*. Approved deletion for FS98. (El Eng 063 is no longer offered. It has been replaced by El Eng 153.)

CC1 4548, Electrical Engineering 151, *Circuits I*. Approved for FS98. Change in description to: Circuit elements signals, Kirchoff's laws, network theorems, mesh and nodal analysis, transient and complete response of RL, RC, and RLC circuits.

CC1 4549, Electrical Engineering 152, *Circuit Analysis Laboratory I*. Approved for FS98. Change in prerequisites from Preceded or accompanied by El Eng 151 "TO" Preceded or accompanied by El Eng 151. A student who drops El Eng 151 must also drop El Eng 152.

CC1 4551, Electrical Engineering 154, *Circuit Analysis Laboratory II*. Approved for FS98. Change in prerequisites from Preceded or accompanied by El Eng 153, passing grade on El Eng Advancement Exam I "TO" Preceded or accompanied by El Eng 153, passing grade on El Eng Advancement Exam I. A student who drops El Eng 153 must also drop El Eng 154.

CC1 4552, Electrical Engineering 155, *Circuit Analysis Laboratory I and II*. Approved for FS98. Change in prerequisites from El Eng 151 with a grade of "C" or better. A passing grade on El Eng Advancement Exam I, preceded or accompanied by El Eng 153 "TO" Preceded or accompanied by El Eng 153, passing grade on El Eng Advancement Exam I. A student who drops El Eng 153 must also drop El Eng 155.

CC1 4553, Electrical Engineering 200, *Special Problems*. Approved new course for FS98. Variable hours credit. Description reads: Problems or readings on specific subjects or projects in the department. Consent of instructor required.

CC1 4554, Electrical Engineering 205, *Electrical Machines*. Approved deletion for FS99. (El Eng 205 will be taught for the last time in FS98. It will be replaced by El Eng 204.)

CC1 4555, Electrical Engineering 207, *Power Systems*. Approved deletion for FS99. (El Eng 207 will be taught for the last time in FS98. It will be replaced by El Eng 206.)

CC1 4556, Electrical Engineering 211, *Logic Design*. Approved deletion for FS98. (El Eng 211 is no longer taught. It will be replaced by Cp Eng 111 in the new Computer Engineering curriculum.)

CC1 4557, Electrical Engineering 212, *Electrical Engineering Laboratory I*. Approved deletion for FS98. (El Eng 212 is no longer taught. It has been replaced by El Eng 152 and 154.)

CC1 4558, Electrical Engineering 220, *Electrical Engineering Laboratory II*. Approved deletion for FS98. (El Eng 220 is no longer taught. The material for El Eng 220 has been integrated into Cp Eng 111 and El Eng 251.)

CC1 4559, Electrical Engineering 221, *Principles of Semiconductor Devices*. Approved deletion for FS98. El Eng 221 will be taught for the last time in WS98. It has been replaced by el Eng 225.)

CC1 4560, Electrical Engineering 230, *Electrical Engineering Laboratory III*. Approved deletion for FS99. (El Eng 205, 212, preceded or accompanied by El Eng 254 and El Eng 273.)

CC1 4561, Electrical Engineering 235, *Controllers for Factory Automation*. Approved for FS98. Change in prerequisites from El Eng 211, El Eng 220 “TO” Cp Eng 111, El Eng 153. (Cp Eng 111 will replace El Eng 211 and El Eng 220 is not offered in the 1995/96 and later curriculum.)

CC1 4562, Electrical Engineering 240, *Electrical Engineering Laboratory IV*. Approved deletion for FS99. (El Eng 240 will be taught for the last time in WS99. The material in El Eng 240 has been integrated into El Eng 261 and El Eng 262.)

CC1 4563, Electrical Engineering 243, *Communication Systems*. Approved for FS98. Change in prerequisites from El Eng 265 or 266 “TO” El Eng 261.

CC1 4564, Electrical Engineering 251, *Electronics I*. Approved for FS98. Change in prerequisites from el Eng 153 with a grade of “C” or better “TO” El Eng 153 with a grade of “C” or better and Cp Eng 112.

CC1 4565, Electrical Engineering 253, *Electronic Circuits I*. Approved deletion for FS98. (El Eng 253 is no longer taught. It has been replace with El Eng 251.)

CC1 4566, Electrical Engineering 254, *Electronic Circuits II*. Approved deletion for FS98. (El Eng 254 will be taught for the last time in WS98. El Eng 254 has been replaced with El Eng 252.)

CC1 4567, Electrical Engineering 261, *Linear Systems I*. Approved for FS98. Change in prerequisites from El Eng 153 with a grade of “C” or better, Math 204 with a grade of “C” or better, a passing grade on the El Eng Advancement Exam II “TO” El Eng 153 with a grade of “C” or better, El Eng 154, Math 204 with a grade of “C” or better, a passing grade on the El Eng Advancement Exam II.

CC1 4568, Electrical Engineering 265, *Linear Continuous-Time Systems*. Approved deletion for FS98. (El Eng 265 is no longer taught. It has been replaced with El Eng 261.)

CC1 4569, Electrical Engineering 266, *Linear System Theory*. Approved deletion for FS98. (There is no longer a demand for El Eng 266. This course has not been taught in over five years.)

CC1 4570, Electrical Engineering 267, *Linear Discrete-Time Systems*. Approved deletion for FS98. (El Eng 267 will be taught for the last time WS98. It has been replaced with El Eng 262.)

CC1 4571, Electrical Engineering 271, *Fields and Waves I*. Approved deletion for FS98. (El Eng 271 is no longer taught. It has been replaced with El Eng 275.)

CC1 4572, Electrical Engineering 273, *Fields and Waves II*. Approved deletion for FS98. (El Eng 273 will be taught for the last time WS98. Much of the material in El Eng 273 is included in El Eng 275.)

CC1 4573, Electrical Engineering 275, *Electromagnetics*. Approved for FS98. Change in prerequisites from El Eng 151, Math 22, and Physics 24 with a grade of “C” or better, in each. Passing grade in El Eng Advancement Exam I “TO” El Eng 153, Math 204, and Physics 24 with a grade of “C” or better, in each. Passing grade in El Eng Advancement Exam II. Change in description to: Static electric and magnetic fields using vector analysis and time-varying electromagnetic fields using maxwell’s equations. Topics include coulomb’s law, Gauss’s law, Ampere’s law, dielectric and magnetic materials, plane waves, and transmission lines.

CC1 4574, Electrical Engineering 303, *Electrical Distribution System Design and Protection*. Approved for FS98. Change in prerequisites from El Eng 207 “TO” El Eng 206. Change in description to: Analysis of unbalanced faults in distribution systems. Computer methods are used for modeling and calculations, protection devices and their applications, new technologies such as load management and distribution automation are developed and demonstrated. (El Eng 207 will be taught for the last time WS97. It is being replaced by El Eng 206.)

CC1 4575, Electrical Engineering 305, *Alternating Current Machines*. Approved for FS98. Change in prerequisites from El Eng 205/204 and El Eng 231 “TO” El Eng 204 and El Eng 231. (El Eng 205 will be taught for the last time WS98. It is being replaced by El Eng 204.)

CC1 4576, Electrical Engineering 307, *Power Systems Engineering*. Approved for FS98. Change in prerequisites from El Eng 207 “TO” El Eng 206. (El Eng 207 will be taught for the last time WS98. It is being replaced by El Eng 206.)

CC1 4577, Electrical Engineering 331, *Digital Control*. Approved for FS98. Change in prerequisites from El Eng 231, 267 “TO” El Eng 231, 262. Change in description to: Analysis and design of digital control systems. Review of z-transforms; root locus and frequency response methods; state space analysis and design techniques; controllability, observability and estimation. Examination of digital control algorithms. (El Eng 262 has replaced El Eng 267 in the 1995/1996 and later curriculums.)

CC1 4578, Electrical Engineering 335, *Expert Systems with Applications to Engineering Problems*. Approved deletion for FS98. (Duplication of Eng Mg 377. Last taught WS93.)

CC1 4579, Electrical Engineering 341, *Digital Signal Processing*. Approved for FS98. Change in prerequisite from El Eng 267 “TO” El Eng 262. (El Eng 262 has replaced El Eng 267 in the 1995/96 and later curriculums.)

CC1 4580, Electrical Engineering 345, *Digital Image Processing*. Approved for FS98. Change in prerequisites from El Eng 267 “TO” El Eng 262. (El Eng 262 has replaced El Eng 267 in the 195/96 and later curriculums.)

CC1 4581, Electrical Engineering 347, *Machine Vision*. Approved for FS98. Change in prerequisites from El Eng 211 and preceded or accompanied by El Eng 267 “TO” El Eng 111 and preceded or accompanied by El Eng 262. (El Eng 262 has replaced El Eng 267 in the 1995/96 and later curriculum.)

CC1 4582, Electrical Engineering 351, *Advanced Electronic Circuits*. Approved for FS98. Change in prerequisites from El Eng 254 “TO” El Eng 252. (El Eng 252 has replaced El Eng 254 in the 1995/96 and later curriculums.)

CC1 4583, Electrical Engineering 353, *Power Electronics*. Approved for FS98. Change in prerequisites from El Eng 253 “TO” El Eng 251. Change in description to: Power semiconductor devices in switching mode converter and control circuits, phase controlled rectifiers, synchronous inverters, AC regulators, cycloconverters; self commutated inverters; and frequency changers; thermal analysis and protection. (El Eng 251 has replaced El Eng 253 in the 1995/96 and later curriculum.)

CC1 4584, Electrical Engineering 355, *High Frequency Amplifiers*. Approved for FS98. Change in prerequisites from El Eng 254, 273 “TO” El Eng 252, 275. (El Eng 254 and El Eng 273 will not be taught after WS98. El Eng 252 has replaced El Eng 254 and El Eng 275 has replaced El Eng 271 and 273 in the 1995/96 and later curriculum.)

CC1 4585, Electrical Engineering 361, *Computer-Aided Network Design*. Approved for FS98. Change in prerequisites from el Eng 253, 267 “TO” El Eng 251, 262. (El Eng 251 and el Eng 267 will not be taught after FS97. El Eng 251 has replaced El Eng 253 and El Eng 262 has replaced El Eng 267 in the 995/96 and later curriculum.)

CC1 4586, Electrical Engineering 363, *Introduction to Network Synthesis*. Approved for FS98. Change in prerequisites from El Eng 267 “TO” El Eng 262. (El Eng 267 will not be taught after FS97. El Eng 262 has replaced El Eng 267 in the 1995/96 and later curriculum.)

CC1 4588, Electrical Engineering 371, *Grounding and Shielding*. Approved for FS98. Change in prerequisites from El Eng 265 and 271 “TO” El Eng 261 and 275. (El Eng 265 and El Eng 271 are no longer taught. El Eng 261 has replaced El Eng 265 and El Eng 275 has replaced el Eng 271 and El Eng 273 in the 1995/96 and later curriculum.)

CC1 4589, Electrical Engineering 373, *Antennas and Propagation*. Approved for FS98. Change in prerequisites from El Eng 273 “TO” El Eng 275. (El Eng 273 is no longer taught. El Eng 275 has replaced El Eng 271 and 273 in the 1995/96 and later curriculum.)

CC1 4590, Electrical Engineering 377, *Microwave Circuit Design*. Approved for FS98. Change in prerequisite from El Eng 253, 275 “TO” El Eng 251, 275. (El Eng 253 and El Eng 273 are no longer taught. El Eng 251 has replaced El Eng 253 and El Eng 275 has replaced El Eng 271 and El Eng 273 in the 1995/96 and later curriculum.)

CC1 4591, Electrical Engineering 379, *Microwave Theory and Techniques*. Approved for FS98. Change in prerequisites from El Eng 273 “TO” El Eng 275. (El Eng 273 is no longer taught. El Eng 275 has replaced El Eng 271 and El Eng 273 in the 1995/96 and later curriculum.)

CC1 4592, Electrical Engineering 402, *Advanced Theory of Electric Machines*. Approved for FS98. Change in prerequisites from El Eng 205 “TO” El Eng 204. (El Eng 204 replaces El Eng 205 in the 1995/96 and later curriculum.)

CC1 4593, Electrical Engineering 424, *Gaseous Electronics*. Approved for FS98. Change in prerequisites from El Eng 273 “TO” El Eng 275. (El Eng 273 is no longer taught. El Eng 275 replaces El Eng 271 and El Eng 273 in the 1995/96 and later curriculum.)
Optics.

CC1 4594, Electrical Engineering 425, *Electromagnetic Optics*. Approved new course for FS98. 3 hours credit. Prerequisites: El Eng 275 or Physics 321. Description reads: Propagation, control, and modulation of laser radiation. Topics include optical polarization, interference, layered and anisotropic media, electro-optic devices, acousto-optic devices, and nonlinear optics.

CC1 4595, Electrical Engineering 471, *Advanced Electromagnetics I*. Approved for FS98. Change in prerequisites from Physics 321 or el Eng 273, math 325 “TO” Physics 321 or el Eng 275, math 325. (El Eng 273 is no longer taught. El Eng 275 replaces el Eng 271 and el Eng 273 in the 1995/96 and later curriculum.)

CC1 4596, Computer Engineering 200, *Special Problems*. Approved new course for FS98. Variable hours. No prerequisites. Description reads: Problems or readings on specific subjects or projects in the department.

CC1 4597, Computer Engineering 201, *Special Topics*. Approved new course for FS98. Variable hours. No prerequisite. Description reads: This course is designed to give the department an opportunity to test a new course. Variable title.

CC1 4598, Computer Engineering 214, *Digital Engineering Lab II*. Approved new course for FS98. 1 hour credit. Prerequisites: Cp Eng 111 and 112. Simultaneous enrollment in Cp Eng 213. Description reads; Advanced digital design techniques, Micro controller based design, hardware and software co-design.

CC1 4599, Computer Engineering 318, *Digital System Modeling*. Approved new course for FS98. 3 hours credit. Prerequisites: Cp Eng 111 or Cmp Sc 253. Description reads: Students will learn how to use the IEEE Std 1076 Hardware Description language (VHFL-93) for modeling and top-level design of digital systems. Structural and behavioral models, concurrent and sequential language elements, resolved signals, generics, configuration, test benches, guarded signals, and case studies will be studied. Mentor Graphics QuickHDL compiler and simulation software will be used for class exercises. A brief description of Verilog will be included. By taking this course the student will gain and understanding of the use of modern hardware description languages for digital system modeling for simulation, synthesis, and rapid system prototyping.

CC1 4600, Computer Engineering 319, *Digital Network Design*. Approved new course for FS98. 3 hours credit. Prerequisites: Cp Eng 213 or computer hardware competency. Description reads: simulation-based design of digital networks including local, metropolitan, and wide-area networks. Network standards, performance, trade-off, and simulation tools.

CC1 4601, Computer Engineering 202, *Cooperative Engineering Training*. Approved new course for FS98. Variable hours credit. No prerequisites. Description reads; On-the-job experience gained through cooperative education with industry, with credit arranged through departmental cooperative advisor. Grade received depends on quality of reports submitted and work supervisors evaluations.

CC1 4602, Computer Engineering 210, *Senior Seminar*. Approved new course for FS98. 1 hour credit. Prerequisite: Next to last semester. Description reads: Discussion of current topics.

CC1 4603, Computer Engineering 300, *Special Problems*. Approved new course for FS98. Variable hours credit. No prerequisites. Description reads: Problems or readings on specific subjects or projects in the department. Consent of instructor required.

CC1 4604, Computer Engineering 301, *Special Topics*. Approved new course for FS98. Variable hours credit. Prerequisite: Consent of the instructor. Description reads: This course is designed to give the department an opportunity to test a new course. Variable title.

CC1 4605, Computer Engineering 390, *Undergraduate Research*. Approved new course for FS98. Variable hours credit. Prerequisite: Consent of instructor. Description reads: Designed for the undergraduate student who wishes to engage in research. Not for graduate credit. Not more than six (6) credit hours allowed for graduation credit. Subject and credit to be arranged with the instructor.

CC1 4606, Computer Engineering 391, *Computer Engineering Senior Project I*. Approved for FS98. 1 hour credit. Prerequisites: Stat 217, Cp Eng 111, Econ 121 or 122, Sp&M S 85, English 160, Cp Eng 213, 214 and a computer organization elective. Description reads: A complete design cycle. Working in small teams, students will design, document analyze, implement, and test a product. Topics include: Iteration in design, prototyping, group dynamics, design reviews, making effective presentations, concurrent design, designing for test, ethics and standards, testing and evaluation.

CC1 4607, Computer Engineering 392, *Computer Engineering Senior Project II*. Approved new course for FS98. 3 hours credit. Prerequisites: Cp Eng 391, Cp Eng 210. Description reads: A continuation of Cp Eng 391.

CC1 4608, Computer Engineering 400, *Special Problems*. Approved new course for FS98. Variable hours. Description reads: Problems or readings on specific subjects or projects in the department. Consent of the instructor required.

CC1 4609, Computer Engineering 401, *Special Topics*. Approved new course for FS98. Variable hours. Prerequisite: Consent of the instructors. Description reads: This course is designed to give the department an opportunity to test a new course. Variable title.

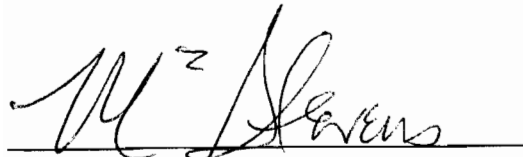
CC1 4610, Computer Engineering 490, *Special Research and Thesis*. Approved new course for FS98. Variable hours. Description reads: Investigations of an advanced nature leading to the preparation of a thesis or dissertation.

CC1 4611, Computer Engineering 493, *Oral Examination*. Approved new course for FS98. 0 hours credit. Description reads: After completion of all other program requirements, oral examinations for on-campus students may be processed during the first two weeks of an academic session or at any appropriate time for off-campus students upon enrollment in 493 and payment of oral examination fee. All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4612, Computer Engineering 495, *Continuous Registration*. Approved new course for FS98. 1 hour credit. Description reads: Doctoral candidates who have completed all requirements for the degree except for the dissertation, and are away from the campus, must continue to enroll for at least one hour of credit each registration period until the degree is completed. Failure to do so may invalidate the candidacy. Billing will be automatic as will registration upon payment.

CC1 4613, *System Simulation and Identification*. Approved for FS98. Change in prerequisites from El Eng 231, 267 **"TO"** El Eng 231, 262.

CC1 4614, *Novell NetWare 4.1 / 4.11*. Approved new course for FS98. 3 hours credit. No prerequisites. Description reads; A practical, hands-on course for Novell network administration including NDS planning, mapping and documentation; system power up/down; security, resource service management; user management from creation to user and workstation maintenance; application software installation and management, and Novell Server installation.



Dr. M. Merrill Stevens, Chair

ACTION ITEMS

<u>Date of Passage</u>	<u>Subject</u>	<u>Referred To</u>
June 19, 1997	New Policy Memorandum on Video and/or Distance Learning	Dr. Park
Oct. 16, 1997	Elimination of Student Anonymous Complaint Letter	Dr. Park
June 25, 1998	Correction of Salary Deficits with Comparable Institutions	Dr. Park
June 25, 1998	Student Input for Tenure and Promotion	Dr. Gajda



ACADEMIC COUNCIL

VOL. XXVIII, NO. 1
Minutes of the Academic Council Meeting
September 17, 1998

XXVIII,1. The meeting was called to order at 1:35 P.M. by President Bruce Selberg. No substitutions were noted.

.1 It was moved and seconded to approve the minutes of the June 25, 1998 meeting as distributed. Motion carried.

.2 REPORTS OF STANDING AND SPECIAL COMMITTEES

A. RULES, PROCEDURES, AND AGENDA

1. Professor Jeff Cawlfild presented the slate of officers for 1998-99: President-Elect, Jerry Tien; Secretary, Don Myers; and Parliamentarian, Linda Manning. He then asked if there were any nominations from the floor. When none were forthcoming, a motion was made to approve the slate by acclamation. There was a second, and motion carried.

.3 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT

1. Professor Selberg reported on items discussed at the June IFC meeting.

a. Finalized Grievance Document (Professor Selberg sent this to Academic Council members, and it will be on the October agenda for discussion and potential approval. If passed, and accepted by the University lawyers, it will then go the Board of Curators.

b. Steve Lehmkuhle passed out Critical Success Factors.

c. Discussed University Faculty Intellectual Property Rights relative to web-based educational instruction.

d. Put together new reduced level retirement package to be presented at the June Board of Curators meeting.

2. Professor Selberg reported from the September IFC meeting.

a. Discussion again centered on Grievance Procedures, Retirement Package, and Intellectual Property issues.

b. Steve Lehmkuhle formed a committee to investigate University/faculty issues related to Intellectual Property Rights for web-based educational instruction. Dr. Gajda will chair this committee, and each campus will have a faculty representative (Don Myers will represent UMR).

c. President Pacheco spoke about endowed professorships, saying they have to enhance the mission. A brief discussion followed on this subject.

3. Past President Selberg recapped the Academic Council year, and turned the meeting over to incoming President Dennis Perry.

4. President Perry thanked Professor Selberg for all his work for Academic Council.

a. He then talked briefly about the background of his coming to serve on Academic Council.

b. He also talked about his education and his family.

c. Professor Perry commented on the Strategic Action Plan, saying he felt a good learning environment was very important, and remembering the human and humane, as well as the academic.

B. CHANCELLOR'S REPORT Dr. Park thanked Professors Selberg and Cawlfeld for their service, and commented that UMR is noted for sending responsible, thoughtful representatives to U-wide meetings. He also commented on Professor Perry's statements about learning environment, saying that he very much agreed. He said that the two very important items in retention are peer interaction and Faculty-Student relationships outside the class. He then went on to report on items of interest.

1. Concerning the Strategic Action Plan, Dr. Park stated that the Plan and accomplishments would be sent out by October 1.

2. Dr. Park said the focus this year is primarily on retention and recruitment, with the following being what he feels are the most important factors:

a. Focus on English and Science

b. Focus on Student Success

c. Supportive learning environment

d. Research addressing Societal needs.

e. Lean, efficient resource management.

3. The Chancellor apologized for the delay in getting the Administrative Evaluation process going forward. He said it would probably be two more weeks, and it would be electronic. After a lengthy discussion on using a random sample for evaluating Vice-Chancellors, Dr. Park took a straw poll of the Council members. The result was 13 to 7 in favor of everyone evaluating all the Vice-Chancellors.

.2 REPORTS OF STANDING AND SPECIAL COMMITTEES CONTINUED

B. CURRICULA

1. Professor Howard Pyron presented the ECl's for information only. He then moved to approve the CCl's as distributed. A second followed, and motion carried.

2. Professor Pyron said that last spring, the Curricula Committee requested that GE130-Petrology, Geology and Geophysics, be changed to a 4 hour course beginning in the winter of 1999. Inadvertently, it became effective in the fall of 1998, upsetting many students. He moved to change it back to a 3 hour course until the fall of 1999. Professor Dan white seconded, and motion carried.

.4 OLD BUSINESS

A. Action items-President Perry called attention to the last page distributed with the agenda. He said these are just a reminder of items awaiting action.

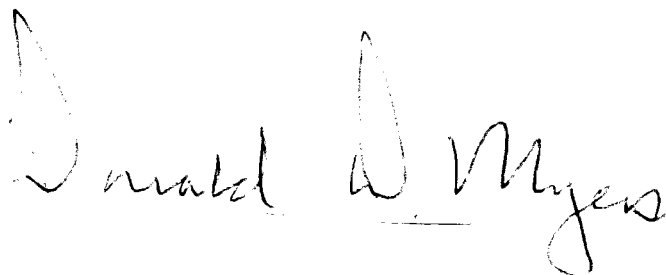
.5 NEW BUSINESS

A. STUDENT COUNCIL-Joe Schmidberger spoke briefly on a new St. Pat's Steering Committee. He also stated that he and Karl Schmitt are the representatives to the Intercampus Student Council.

There was a motion and a second to adjourn. Motion carried.

Respectfully submitted,

Don Myers
Secretary



*Minutes of the Academic Council are considered official notification and documentation of actions approved.



ACADEMIC COUNCIL

To: UMR FACULTY

Academic Council Meeting
Thursday, October 15, 1998; 1:30 P.M.; 204 McNutt

- I. Approval of minutes of the September 17, 1998 meeting
- II. Reports and Responses
 - A. President's Report (5 min.) Dennis Perry
 - B. Chancellor's Report (10 min.) John Park
(10 minutes for Questions and Answers)
- III. Reports of Standing and Special Committees
 - A. Curricula (5 min.) Howard Pyron
1.*Report No. 2
- IV. Old Business
 - A. Action Items*
- V. New Business and Announcements
 - A. Staff Council
 - B. Student Council
1. Request for Referral
 - C. Referrals

*Information distributed with agenda to Academic Council members and department chairs.

University of Missouri-Rolla
Missouri's Technological University



Registrar's Office
103 Parker Hall
1870 Miner Circle
Rolla, MO. 65409-0970
(573) 341-4181

Memo To: Academic Council
From: UMR Campus Curricula Committee
RE: September 28, 1998, Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will be offered in the near future.

Submitted EC1's:

EC1 925, Ceramic Engineering 301, *Refractories Laboratory*, FS99. Approved for FS99. 1 hour lab. No prerequisites.

EC1 926, Chemistry 401, *Environmental Aerosol Characterization*. Approved for WS99. 2 hours lecture and 1 hour lab. Prerequisites: Chem 375.

EC1 927, Mining Engineering 401, *Mining Property Feasibility Studies and Evaluation Procedures*. Approved for WS99. 2 hours lecture and 1 hour lab. Prerequisites: Mi Eng 270, Mi Eng 325, Mi Eng 376 and Mi Eng 393.

EC1 928, Mining Engineering 301, *Mine Plant Management*. Approved for WS99. 2 hours credit. Prerequisites: Senior Standing. (The prerequisite of "Senior Standing" was suggested to Dr. Golosinski as being more appropriate than the one submitted on the EC1 form.)

EC1 929, Civil Engineering 301, *Environmental Law and Regulations*. (Co-listed with Env Eng 301). Approved for WS99. 3 hours credit. No prerequisites.

EC1 930, Environmental Engineering 301, *Environmental Law and Regulations*. (Co-listed with Cv Eng 301.) Approved for WS99. 3 hours credit. No prerequisites.

EC1 931, Computer Science 301, *Multimedia Information Systems*. Approved for WS99. 3 hours credit. Prerequisites: Cmp Sc 153.

EC1 932, Geological Engineering 301, *Aggregates & Quarrying*. Approved for WS99. 2 hours lecture and 1 hour lab. Prerequisites: Ge Eng 50.

The UMR Campus Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

EC1 933, Biological Sciences 301, *Nutritional and Medicinal Properties of Plants*. Approved for WS99. 3 hours credit. Prerequisites: Bio Sc 110.

EC1 934, Mechanical Engineering 301, *Compliant Mechanism Design*. Approved for WS99. 3 hours credit. Prerequisites: Mc Eng 213, Bas En 110.

EC1 935, Political Science 201, *Contemporary Political Theory*. Approved for WS99. 3 hours credit. Prerequisites: Pol Sc 90 or Hist 111 or 112.

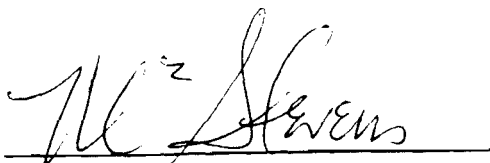
Submitted CC1's:

CC1 4587, Electrical Engineering 368, *Introduction to Neural Networks & Applications*. (Co-listed with Cmp Sc 378 & Eng Mg 378.) Removed from tabled and approved for FS98. Change in prerequisites from Math 229 or equivalent "TO" Math 204 or Math 229 or equivalent.

CC1 4615, Computer Science 078, *Programming Methodology Laboratory*. Approved for WS99. Change in catalog description to: A hands-on introduction to structured programming in C++. Development, coding, debugging, and execution of programming concepts discussed in Computer Science 74. Change in prerequisites from None "TO" Accompanied by Cmp Sc 74.

CC1 4617, Computer Science 378, *Introduction to Neural Networks & Applications*. Co-listed with Eng Mg 378 & El Eng 368. Approved for WS99. Change in prerequisites from Math 229 or equivalent "TO" Math 204 or Math 229 or equivalent.

CC1 4619, Engineering Management 378, *Introduction to Neural Networks and Applications*. Co-listed with Cmp Sc 378 & Eng Mg 368. Approved for WS99. Change in prerequisites from Math 229 or equivalent "TO" Math 204 or Math 229 or equivalent.

A handwritten signature in dark ink, appearing to read "M. Stevens", is written over a horizontal line.

M. Merrill Stevens, Chair

ACTION ITEMS

<u>Date of Passage</u>	<u>Subject</u>	<u>Referred To</u>
June 19, 1997	New Policy Memorandum on Video and/or Distance Learning	Dr. Park
Oct. 16, 1997	Elimination of Student Anonymous Complaint Letter	Dr. Park
June 25, 1998	Correction of Salary Deficits with Comparable Institutions	Dr. Park
June 25, 1998	Student Input for Tenure and Promotion	Dr. Gajda



ACADEMIC COUNCIL

VOL. XXVIII, NO. 2
Minutes of the Academic Council Meeting
October 15, 1998

XXVIII,2. The meeting was called to order at 1:30 P.M. by President Dennis Perry. Two substitutions were noted-Lance Williams for Russell Buhite and J.W. Johnson for Neil Book.

.1 It was moved and seconded to approve the minutes of the September 17, 1998 meeting as distributed. Motion carried.

.2 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT

1. Professor Perry stated that he did not attend the last IFC meeting, but he gave a brief report on some upcoming issues of interest.

a.Revision of Grievance Procedures

b.Salary Situation-Professor Selberg has been asked by IFC to track salaries of full professors in the UM System.

c.Intellectual Property discussion and related committees.

d.President Pacheco's moratorium on endowed chairs until criteria is established.

2. A lengthy discussion ensued on the various issues President Perry had mentioned.

B. CHANCELLOR'S REPORT

In the absence of Dr. Park (who was attending a Board of Curators' meeting), Dr. Gajda presented this report.

1. The Vice-Chancellor mentioned that he recently wrote to Dr. Perry asking the Academic Council to consider the issue of assessment, and also consider possible means of motivation for the students to make their best efforts.

2. Dr. Gajda announced that UMR would be received the visit from the North Central Accreditation team on April 19, 20, and 21, 1999. This is done every ten years.

a.UMR has to provide a self-study addressing the concerns of ten years ago which were the library and faculty salaries.

b.A preliminary self-study can be found on the web, addressing five criteria: (1)Does UMR have clear, stated programs? (2)Does the University effectively organize its resources? (3)Is the University demonstrating its educational purposes? (4)Can we continue to accomplish our purposes? (5)Does the University establish and maintain integrity?

3. After elaborating further on the Accreditation Team visit, Dr. Gajda mentioned that an agreement is near for a Statewide Engineering Management Program. He stated that this will be UMR's degree. Other participating institutions will have some right of collaboration, but UMR will make the decisions as to courses and curriculum content.

4. Dr. Gajda briefly mentioned upgrade funds for computing.

QUESTIONS AND ANSWERS-There were various questions from the floor and some discussion of the items Dr. Gajda had mentioned.

.3 REPORTS OF STANDING AND SPECIAL COMMITTEES

A. CURRICULA

1. Professor Howard Pyron presented the EC1's for information only. He then moved to approved the CC1's as distributed. After one question from the floor, motion carried.

.4 OLD BUSINESS

A. President Perry referred briefly to the Action Items sent out with the agenda.

.5 NEW BUSINESS

A. STAFF COUNCIL-Venita Currie announced that a survey will be sent out to staff about November 1. She also announced a coordinated workday on November 7 to help an elderly man fix up his house.

B. STUDENT COUNCIL

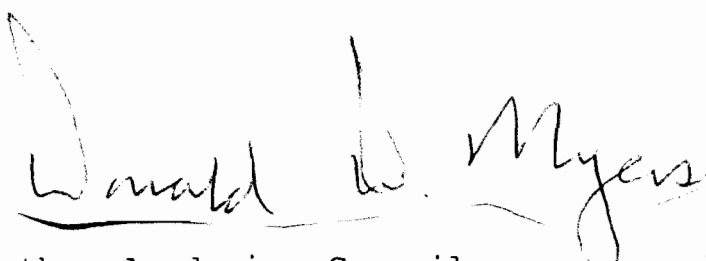
1. Joe Schmidberger made a few comments on the assessment issue, and stated that Steve Lemkuhle has asked for input from the students. The Student Council will develop the student position on it.
2. He also commented that he had met with President Pacheco to discuss issues from the InterCampus Student Council. He said that Council was going to meet later in the week with the Curators and then Steve Lemkuhle.
3. Mr. Schmidberger referred to a Resolution that was passed by the Student Council on September 30 about student input on tenure. He said this was a revised version, and he asked that it be referred to the Tenure Committee, where he would like to discuss it.

C. REFERRALS-President Perry stated that he had a referral from Professor D.C. Look concerning the possibility of setting aside 3:30 to 6:30 P.M. on school days for extra-curricular activities, so that students don't have conflict with classes. After some discussion, Professor Perry said this would be referred to the Student Affairs Committee.

There was a motion and a second to adjourn. Motion carried.

Respectfully submitted,

Don Myers
Secretary

A handwritten signature in dark ink, appearing to read "Donald W. Myers". The signature is fluid and cursive, with a large initial "D" and "M".

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B. STUDENT COUNCIL

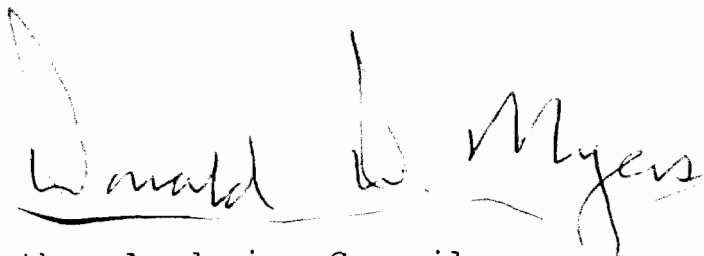
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ACADEMIC COUNCIL

UMR FACULTY

Academic Council Meeting

Thursday, November 19, 1998; 1:30 P.M.; 204 McNutt

- I. Approval of minutes of the October 15, 1998 meeting
- II. Reports and Responses
 - A. President's Report (To include IFC) (5 min.) Dennis Perry
 - B. Chancellor's Report (10 min.) John Park
(10 minutes for Questions and Answers)
 - C. Intellectual Property Task Force (10 min.) Walt Gajda
- III. Reports of Standing and Special Committees
 - A. Curricula (5 min.) Howard Pyron
1.*Report No. 3
 - B. Public Occasions Jerry Bayless
1.*Calendar
 - C. Student Affairs (No report) Bill Wilson
1. Afternoon Class Scheduling-Referred October, 1998
 - D. Tenure (No report)
1. Student input in promotion process-Referred Oct., '98
- IV. Old Business
 - A. Action Items*
 - B. Grievance Issue
- V. New Business and Announcements
 - A. Director of Admissions-Martina Hahn
 - B. Staff Council
 - C. Student Council
 - D. Referrals

*Information distributed with agenda to Academic Council members and department chairs.



ACADEMIC COUNCIL

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University of Missouri-Rolla
Missouri's Technological University



Registrar's Office
103 Parker Hall
1870 Miner Circle
Rolla, MO. 65409-0970
(573) 341-4181

Memo To: Academic Council
From: UMR Campus Curricula Committee
Re: November 9, 1998, Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will be offered in the near future.

Submitted EC1's:

EC1 938, Philosophy & Liberal Arts, Education 301, *The Internet for Educators*. Approved for WS99. 1 hour credit. Prerequisite: Graduate Standing.

EC1 939, Philosophy & Liberal Arts, Education 301, *Internet Publications/Creating Web Pages*. Approved for WS99. 1 hour credit. Prerequisite: Graduate Standing.

EC1 940, Philosophy & Liberal Arts, Education 301, *Computer Based Presentations*. Approved for WS99. 1 hour credit. Prerequisite: Graduate Standing.

EC1 941, Philosophy & Liberal Arts, Education 301, *Print Publishing*. Approved for WS99. 1 hour credit. Prerequisite: Graduate Standing.

EC1 942, Philosophy & Liberal Arts, Education 301, *Computer Applications in the Classroom*. Approved for WS99. 1 hour credit. Prerequisite: Graduate Standing.

EC1 943, Philosophy & Liberal Arts, Education 301, *Current Issues in Education: Performance Based Assessment, Beginning*. Approved for WS99. 3 hours credit. Prerequisite: Graduate Standing.

EC1 944, Philosophy & Liberal Arts, Education 301, *Current Issues in Education: Performance Based Assessment-Intermediate*. Approved for WS99. 3 hours credit. Prerequisite: Graduate Standing.

EC1 945, Philosophy & Liberal Arts, Education 301, *Current Issues in Education: Performance Based Assessment, Advanced*. Approved for WS99. 3 hours credit. Prerequisite: Graduate Standing.

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EC1 945, Philosophy & Liberal Arts, Education 301, *Current Issues in Education: Performance Based Assessment, Advanced*. Approved for WS99. 3 hours credit. Prerequisite: Graduate Standing.

PUBLIC OCCASIONS DATES FOR 1999-2000

Industry Career Day	Thursday, September 23, 1999
Rolla Night at the Engineers Club of St. Louis	Thursday, October 7, 1999
Student Council Free Day	Friday, October 8, 1999
Homecoming	Friday & Saturday, October 1, 2, 1999
UM-Rolla Day	Saturday, October 16, 1999
Parents Day	Saturday, October 23, 1999
Commencement*	Saturday, December 18, 1999
Spring Career Day	Wednesday, February 9, 2000
Science and Engineering Fair	Wednesday, March 15, 2000
Spring Open House	Saturday, April 9, 2000
Commencement*	Saturday, May 13, 2000

*Approved as part of 1999-00 calendar

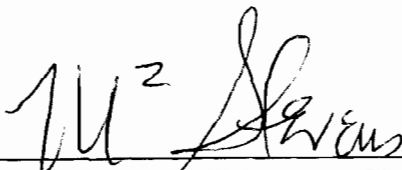
The UMR Campus Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Submitted CC1's:

CC1 4618, Computer Engineering 213, *Digital Systems Design*. Approved for WS99. Change in prerequisites from El Eng 211 **"TO"** Cp Eng 111.

CC1 4621, Engineering Management 478, *Advanced Neural Networks*. Approved for WS99. Change in course title from *"Advanced Manufacturing through Neural Networks"*.

CC1 4622, Physics 313, *Introduction to General Relativity*. Approved new course for WS99. 3 hours credit. Prerequisite: Physics 208. Description reads: An introduction to the theory of general relativity. Topics covered include the formalism of general relativity, Einstein's gravitational field equations, the Schwarzschild solution, black holes, and cosmological models of the universe.



M. Merrill Stevens, Chair



SCHOOL of ENGINEERING

Jerry R. Bayless
Associate Dean of Engineering
101 Engineering Research I
1870 Miner Circle
Rolla, MO 65409-0808
Phone: (573) 341-4141
FAX: (573) 341-4949
e-mail: jerryb@umr.edu

November 4, 1998

MEMO TO: Dr. Dennis Perry, President, Academic Council
FROM: ^{JRB} Jerry Bayless, Chair, Public Occasions Committee
RE: Academic Year Calendar, 2000-2001
Public Event Dates, 1999-2000

The Public Occasions Committee approved the two attachments at the November 2 meeting and presents them to the Academic Council for consideration at the next meeting. The 2000-2001 calendar was prepared by the Calendar Committee, chaired by Henry Metzner. Chairs of the various committees which coordinate public events had input on the dates.

JRB:sh

cc: ✓ Shirley Hobson

FALL SEMESTER 2000

Fall Semester opens 7:30 a.m.	August 13, Sunday
Freshman Orientation	August 13, Sunday
New Student Orientation	August 16, Wednesday
Student Registration 8:30 a.m. – 3:00 p.m.	August 17, Thursday
Classwork begins 7:30 a.m.	August 21, Monday
Labor Day Holiday	September 4, Monday
Mid-Semester	October 14, Saturday
Thanksgiving vacation begins 7:30 a.m.	November 22, Wednesday
Thanksgiving vacation ends 7:30 a.m.	November 27, Monday
Last Class Day	December 8, Friday
Reading Day	December 9, Saturday
Final Examinations begin 8:00 a.m.	December 11, Monday
Final Examinations end 6:00 p.m.	December 15, Friday
Fall Semester closes 6:00 p.m.	December 16, Saturday
December Commencement	December 19, Saturday

SPRING SEMESTER 2001

Spring Semester opens 7:30 a.m.	January 11, Thursday
Student Registration 8:30 a.m. – 3:00 p.m.	January 11, Thursday
Martin Luther King, Jr. Recognition Holiday	January 15, Monday
Classwork begins 7:30 a.m.	January 16, Tuesday
Mid-Semester	March 10, Saturday
Spring Recess begins 7:30 a.m.	March 15, Thursday
Spring Recess ends 7:30 a.m.	March 19, Monday
Spring Break begins 7:30 a.m.	March 25, Sunday
Spring Break ends 7:30 a.m.	April 2, Monday
Last Class Day	May 11, Friday
Reading Day	May 12, Saturday
Final Examinations begin 8:00 a.m.	May 14, Monday
Final Examinations end 6:00 p.m.	May 18, Friday
Spring Semester closes 6:00 p.m.	May 18, Friday
May Commencement	May 19, Saturday

*SUMMER SESSION 2001

Summer Session opens 7:30 a.m.	June 11, Monday
Student Registration 8:30 a.m. – 3:00 p.m.	June 11, Monday
Classwork begins 7:30 a.m.	June 12, Tuesday
Independence Day Holiday	July 4, Wednesday
Summer Sessions closes 12:30 p.m.	August 4, Saturday

*Schedule shows the regular eight-week Summer Session. Other special course sessions may be scheduled.

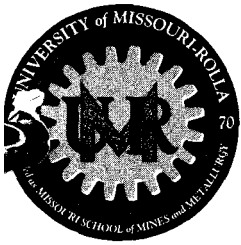
CLASS SESSIONS (EXCLUDING FINAL EXAMINATIONS)

	M	TU	W	TH	F	S
Fall Semester	15	16	15	15	15	15
Spring Semester	15	16	16	15	15	15
Summer Semester	7	8	7	8	8	8

The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.

ACTION ITEMS

<u>Date of Passage</u>	<u>Subject</u>	<u>Referred To</u>
June 19, 1997	New Policy Memorandum on Video and/or Distance Learning	Dr. Park
Oct. 16, 1997	Elimination of Student Anonymous Complaint Letter	Dr. Park
June 25, 1998	Correction of Salary Deficits with Comparable Institutions	Dr. Park
June 25, 1998	Student Input for Tenure and Promotion	Dr. Gajda



ACADEMIC COUNCIL

VOL. XXVIII, NO. 1
Minutes of the Academic Council Meeting
November 19, 1998

XXVIII,3. The meeting was called to order at 1:30 P.M. by President Dennis Perry. No substitutions were noted. A revised agenda was distributed.

.1 It was moved and seconded to approve the minutes of the October 15, 1998 meeting as distributed. Motion carried.

.2 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT

1. Professor Perry gave a brief report from the last IFC meeting.

a. He stated that IFC would be voting on the Grievance Revisions on November 20.

b. There was a brief discussion on the coordinated calendar at the meeting, but President Perry said interest in this had somewhat waned.

2. President Perry asked Professor Selberg to report on the medical benefits situation. Professor Selberg reported three items of interest.

a. Costs are up 10 percent.

b. Last year's exclusion of the Columbia/Jeff City area if you had Choice Plus has changed. In 1999, the only exclusion will be the University Hospitals and providers.

c. There is a projection of a 30 to 35 percent increase in premiums in 2000.

B. CHANCELLOR'S REPORT

Dr. Park gave a brief report on various items of interest.

1. The Chancellor stated that he would be attending a Strategic Planning meeting on November 20, and that he expected to see some real action and objectives to deal with.

2. Dr. Park mentioned a meeting of NASULGC that he had recently attended.

a. He said they discussed video courses and their costs, and there were lots of claims about new methods of teaching such as computer tutoring. Some colleges now require students to have their own computers.

b. Dr. Park said technology is coming rapidly, and we have to be able to compete.

c. There was much discussion about Intellectual Properties, and the Chancellor said we are not behind on this.

QUESTIONS AND ANSWERS-There were one or two questions from the floor and some discussion of the items Dr. Park had mentioned.

C. INTELLECTUAL PROPERTY TASK FORCE-Dr. Gajda gave this report, and stated that it is a sub-committee of Patents and Licensing.

1. Dr. Gajda stated that Steve Lemkuhle will name one representative to this group from each campus (UMR's being Don Myers).

2. At their meeting last week, they reviewed the policies on the different campuses.

3. They are now at the place where they will be going to meetings at each campus to allow faculty input. Who owns what is a very complex issue, according to Dr. Gajda.

4. As to the University's rights to royalties, Dr. Gajda stated that the policy says if the University had input, it gets some royalties. He stated this leaves a lot of "in-between" gray areas and is a very rich area of concern.

.3 REPORTS OF STANDING AND SPECIAL COMMITTEES

A. CURRICULA

1. Professor Howard Pyron presented the EC1's for information only. He then moved to approve the CC1's as distributed. There was a second and motion carried.

B. PUBLIC OCCASIONS

1. Professor Jerry Bayless presented the Academic Calendar for 2000-2001. There was a motion to approve and a second, and motion carried.
2. Professor Bayless presented the Public Occasions dates.
 - a. There was a motion to approve and a second.
 - b. Professor Selberg then moved to amend the motion to combine UM Rolla Day and Parents' Day. There was a second.
 - c. Professor Bayless stated that when this issue came up two years ago, it was referred back to his committee. They met with the Chairs and decided it need to stay separate. A lengthy discussion followed.
 - d. Vote was take on the amendment, which carried. Vote was then taken on the main motion which also carried.

.4 OLD BUSINESS

- A. President Perry referred to the Action Items sent out with the Agenda. He stated that Student Input for Tenure and Promotion would be removed from the list, as there has been action on this.
- B. GRIEVANCE ISSUE-Professor Don Myers moved to approve the revisions as distributed last spring. There was a second. After a brief discussion of the proposed revisions, motion carried.

.5 NEW BUSINESS

- A. Director of Admissions, Martina Hahn, gave a report on the activities and plans of her department.
 1. Ms. Hahn distributed several handouts and elaborated on these in depth.
 2. There were several questions from Council members concerning ways that Academic Council could interact with Administration to help recruitment. Ms. Hahn elaborated on this.
- B. STAFF COUNCIL-Ben Strehlman announced that they have Christmas is Love boxes in all departments. These will be picked up on December 14. He also stated that Staff Council will be sending out a survey to staff on training and other issues.

C. STUDENT COUNCIL-Joe Schmidberger gave a brief report from this group.

1. Mr. Schmidberger said their Tenure Resolution will be going to the President shortly.

2. He also announced that InterCampus STUCO elections would be in December, and that he is running for Chair.

3. Mr. Schmidberger briefly mentioned the ID card system, restructuring of STUCO reps, and the University Center renovation project.

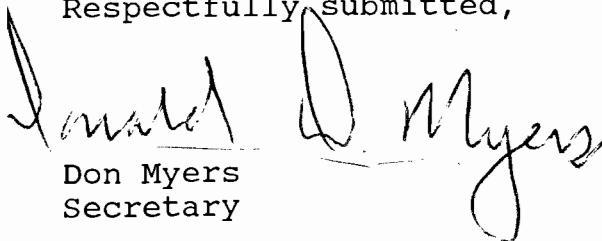
D. REFERRALS.

1. President Perry, at Dr. Park's request, is making a referral to the Assessment Committee, concerning assessment tests for UMR students.

2. At Dr. Gajda's request, Professor Perry is referring to the Admissions and Academic Standard Committee the issue of using the scores from High School students taking college courses to be included in their GPA.

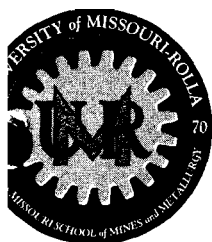
There was a motion and a second to adjourn. Motion carried.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Don Myers". The signature is written in dark ink and is positioned above the printed name and title.

Don Myers
Secretary

*Minutes of the Academic Council are considered official notification and documentation of actions approved.



ACADEMIC COUNCIL

UMR FACULTY

Academic Council Meeting

Thursday, January 21, 1999; 1:30 P.M., 204 McNutt

- I. Approval of minutes of the November 19, 1998 meeting
- II. Reports and Responses
 - A. President's Report (To include IFC) (5 min.) Dennis Perry
 - B. Chancellor's Report (10 min.) John Park
(10 minutes for Questions and Answers)
- III. Reports of Standing and Special Committees
 - A. Admissions and Academic Standards (No report)
 - 1. Inclusion of transfer credits in GPA (11-19-98)
 - B. Assessment (No report)
 - 1. Assessment Tests issues (11-19-98)
 - C. Budgetary Affairs (10 min.) Al Crosbie
 - D. Computer Policy (10 min.) Barbara Hale
 - 1. *Resolution
 - E. Curricula (5 min.) Howard Pyron
 - 1. *Report No. 4 and 5
 - F. Student Affairs (5 min.) Bill Wilson
 - 1. Afternoon Class Scheduling (10-15-98)
 - 2. *4 Constitutions
- IV. Old Business
 - A. Action Items*
- V. New Business and Announcements
 - A. Staff Council
 - B. Student Council
 - D. Referrals

*Information distributed with agenda to Academic Council members and department chairs.

DATE: November 17, 1998
TO: Vice Chancellor Walter Gajda
FROM: Barbara Hale, Chair
Computer Policy Committee
RE: Staff Desktop Technology Funding

In its meeting November 13, 1998, the Computer Policy Committee members voted unanimously in favor of the following resolution:

That the Computer Policy Committee is opposed to the use of Academic Computing funds for Staff Desktop Technology and requests that this use of Academic Computing funds not be made this year nor any year in the future.

UNIVERSITY OF MISSOURI-ROLLA
Missouri's Technological University

Office of the Registrar
103 Parker Hall
Rolla, MO 65401
(573) 341-4181

Memo To: Academic Council
From: UMR Campus Curricula Committee
Re: December 14, 1998, Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will be offered in the near future.

Submitted EC1's:

EC1 946, Petroleum Engineering 301, *Reservoir Characterization*. Approved for WS99. 3 hours credit. No prerequisites.

EC1 947, Geology 301, *Methods of Karst Hydrogeology*. Approved for WS99. 3 hours credit. No prerequisites. This course was previously taught as a 1 hour course for WS98.

EC1 948, Metallurgical Engineering 301, *Nonferrous Alloys Lab*. Approved for FS99. 1 hour lab. Prerequisites: Accompanied or preceded by Mt Eng 333.

EC1 949, Metallurgical Engineering 401, *Advanced Nonferrous Alloys*. Approved for FS99. 3 hours credit. Prerequisites: Mt Eng 217 or Mt Eng 377. Credit will not be given for both Mt Eng 333, *Nonferrous Alloys*, and Mt Eng 401, *Advanced Nonferrous Alloys*. (This credit information was added to the prerequisite as suggested by the committee with Dr. Watson's agreement. The difference between Mt Eng 333 and Mt Eng 401 is a term paper required for 401.)

EC1 950, Mathematics 301, *Cardinal and Ordinal Number Theory*. Approved for SS99. 3 hours credit. Prerequisites: Math 209 or graduate standing.

EC1 951, Mathematics 301, *Mathematical Logic I*. Approved for FS99. 3 hours credit. Prerequisites: Math 209 or Cmp Sc 158 or graduate standing.

EC1 952, Missouri London, 101ML, *Urban Geography of Greater London*. Approved for WS99. 3 hours credit. No prerequisites.

EC1 953, Engineering Management 301, *Introduction to Quality Engineering*. Approved for WS99. 3 hours credit. Prerequisite: Eng Mg 375.

EC1 954, Civil Engineering 301, *Infrastructure Strengthening with Composites*. Approved for FS99. 2 hours lecture and 1 hour lab. Prerequisite: Cv Eng 223.

EC1 955, Aerospace Engineering 301, *Health Monitoring Systems*. Approved for FS99. 3 hours credit. Prerequisite: Senior Standing. (Co-listed with El Eng 301, Mc Eng 301, Eng Mc 301, Cv Eng 301, and Nu Eng 301)

EC1 956, Aerospace Engineering 401, *Integrated Health Monitoring Systems*. Approved for WS2000. 3 hours credit. Prerequisite: Ae Eng 301, *Health Monitoring Systems* (Co-listed with El Eng 401, Mc Eng 401, Eng Mc 401, Cv Eng 401 and Nu Eng 401.)

EC1 957, Civil Engineering 301, *Health Monitoring Systems*. Approved for FS99. 3 hours credit. Prerequisite: Senior Standing. (Co-listed with El Eng 301, Mc Eng 301, Ae Eng 301, Eng Mc 301 and Nu Eng 301.)

EC1 958, Civil Engineering 401, *Integrated Health Monitoring Systems*. Approved for WS2000. 3 hours credit. Prerequisite: Cv Eng 301, *Health Monitoring Systems*. (Co-listed with El Eng 401, Mc Eng 401, Eng Mc 401, Ae Eng 401 and Nu Eng 401.)

EC1 959, Electrical Engineering 301, *Health Monitoring Systems*. Approved for FS99. 3 hours credit. Prerequisite: Senior Standing. (Co-listed with Cv Eng 301, Mc Eng 301, Ae Eng 301, Eng Mc 301 and Nu Eng 301.)

EC1 960, Electrical Engineering 401, *Integrated Health Monitoring Systems*. Approved for WS2000. 3 hours credit. Prerequisite: El Eng 301, *Health Monitoring Systems*. (Co-listed with Cv Eng 401, Mc Eng 401, Eng Mc 401, Ae Eng 401 and Nu Eng 401.)

EC1 961, Engineering Mechanics 301, *Health Monitoring Systems*. Approved for FS99. 3 hours credit. Prerequisite: Senior Standing. (Co-listed with El Eng 301, Mc Eng 301, Ae Eng 301, Cv Eng 301 and Nu Eng 301.)

EC1 962, Engineering Mechanics 401, *Integrated Health Monitoring Systems*. Approved for WS2000. 3 hours credit. Prerequisite: Eng Mc 301, *Health Monitoring Systems*. (Co-listed with Cv Eng 401, Mc Eng 401, El Eng 401, Ae Eng 401 and Nu Eng 401.)

EC1 963, Mechanical Engineering 301, *Health Monitoring Systems*. Approved for FS99. 3 hours credit. Prerequisite: Senior Standing. (Co-listed with El Eng 301, Eng Mc 301, Ae Eng 301, Cv Eng 301 and Nu Eng 301.)

EC1 964, Mechanical Engineering 401, *Integrated Health Monitoring Systems*. Approved for WS2000. 3 hours credit. Prerequisite: Mc Eng 301, *Health Monitoring Systems*. (Co-listed with Cv Eng 401, Eng Mc 401, El Eng 401, Ae Eng 401 and Nu Eng 401.)

EC1 965, Mechanical Engineering 301, *Solid Modeling Applications*. Approved for FS99. 2 hours lecture and 1 hour lab. Prerequisites: Cmp Sc 73 and 77; Mc Eng 208 and 211.

EC1 967, Nuclear Engineering 301, *Health Monitoring Systems*. Approved for FS99. 3 hours credit. Prerequisite: Senior Standing. (Co-listed with El Eng 301, Eng Mc 301, Ae Eng 301, Cv Eng 301 and Mc Eng 301.)

EC1 968, Nuclear Engineering 401, *Integrated Health Monitoring Systems*. Approved for WS2000. 3 hours credit. Prerequisite: Nu Eng 301, Health Monitoring Systems. (Co-listed with Cv Eng 401, Eng Mc 401, El Eng 401, Ae Eng 401 and Mc Eng 401.)



M. Merrill Stevens, Chair

University of Missouri-Rolla
Missouri's Technological University



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103 Parker Hall
1870 Miner Circle
Rolla, MO. 65409-0970
(573) 341-4181

Memo To: Academic Council
From: UMR Campus Curricula Committee
RE: January 13, 1999, Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will be offered in the near future.

Submitted EC1's:

EC1 966, Electrical Engineering 301, *Smart Materials and Sensors*, FS99. Removed from table and approved for FS99. 2 hours lecture and 1 hour lab. Prerequisites: Senior standing and Math 204. Co-listed with Mc Eng, Ae Eng, Cv Eng, and E Mech 301.

EC1 969, Computer Science 301, *Introduction to Visualization & Graphical User Interfaces*. Approved for FS1999. 3 hours credit. Prerequisites: Cmp Sc 253 or C++ and consent of instructor.

EC1 970, English 301, *Writing Hypertext*. Approved for FS1999. 3 hours credit. Prerequisites: Two college-level writing courses.

EC1 971, Chemistry 301, *Molecular Modeling*. Approved for WS2000. 3 hours credit. Prerequisites: Senior undergraduate or graduate student .

EC1 972, Civil Engineering 401, *Stochastic Theory of Structural Vibration*. Approved for FS1999. 3 hours credit. Prerequisite: Cv Eng 424 and Math 204 or equivalent. Mitch Watnik from the Math/Stat department asked if there should be a Stat prerequisite for this course. The committee approved the course for the second time. The stipulation for this approval is that before the course would be approved as a CC1, the word, "Stochastic" may be asked to be removed from the title and description, unless suitable justification from the department as to why a Statistics course is not needed as a prerequisite would be submitted to the committee..

EC1 973, English 301, *Children's Literature*. Approved for FS1999. 3 hours credit. Prerequisites: English 20 and one semester of college literature.

EC1 974, Philosophy & Liberal Arts, Art 201, *American Art and Herman Melville*. Approved for FS1999. 3 hours credit. Prerequisites: Art 80 or Art 85.

EC1 975, Mining Engineering 301, *Tunneling and Underground Construction Techniques*. Approved for FS1999. 2 hours lecture and 1 hour lab. Prerequisites: Mi Eng 231, Mi Eng 325 or Cv Eng 216, Cv Eng 245 or Ge Eng 371.

EC1 976, Economics 301, *Industrial Organization*. Approved for FS1999. 3 hours credit. Prerequisite: Econ 221.

EC1 977, Petroleum Engineering 401, *Advanced Well Technology*. Approved for WS1999. 3 hours credit. Prerequisite: Pe Eng 316.

EC1 978, Aerospace Engineering 301, *Smart Materials and Sensors*. Approved for FS1999. 2 hours lecture and 1 hour lab. Prerequisites: Math 204 and Senior Standing. (Co-listed with Mc Eng, E Mech, El Eng, and Cv Eng 301.)

EC1 979, Civil Engineering 301, *Smart Materials and Sensors*. Approved for FS1999. 2 hours lecture and 1 hour lab. Prerequisites: Math 204 and Senior Standing. (Co-listed with Mc Eng, Ae Eng, El Eng and E Mech 301.)

EC1 980, Electrical Engineering 301, *Smart Materials and Sensors*. Approved for FS1999. 2 hours lecture and 1 hour lab. Prerequisites: Math 204 and Senior Standing. (Co-listed with Mc Eng, Ae Eng, Cv Eng and E Mech 301.)

EC1 981, Engineering Mechanics 301, *Smart Materials and Sensors*. Approved for FS1999. 2 hours lecture and 1 hour lab. Prerequisites: Math 204 and Senior Standing. (Co-listed with Mc Eng, Ae Eng, Cv Eng and El Eng 301.)

EC1 982, Mechanical Engineering 301, *Smart Materials and Sensors*. Approved for FS1999. 2 hours lecture and 1 hour lab. Prerequisites: Math 204 and Senior Standing. (Co-listed with E Mech, Ae Eng, Cv Eng and El Eng 301.)

The UMR Campus Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Submitted CC1's:

CC1 4623, Mining Engineering 307, *Principles of Explosives Engineering*. Approved for WS1999. Change in prerequisites from Ge Eng 50; Accompanied or preceded by either Cv Eng 215 or Mi Eng 231 **"TO"** Ge Eng 50; Accompanied or preceded by either Cv Eng 215 or Geol 220.

CC1 4624, Engineering Management 375, *Total Quality Management*. Approved for FS1999. Change in credit hours from 3 hours lecture **"TO"** 2 hours lecture and 1 hour lab.

CC1 4625, Engineering Management 386, *Safety Engineering Management*. Approved for WS1999. Change in prerequisites from Junior standing in Engineering or Engineering Management “**TO**” No prerequisites. Description change to: This course is an introduction to the principles of safety engineering applied to industrial situations. Job safety analysis, reduction of accident rates, protective equipment, safety rules and regulations, environmental hazards, health hazards, and ergonomic hazards are covered.

CC1 4630, Engineering Management 380, *Work Design*. Approved for WS1999. Change in catalog description to: Addresses the design of workstations and tasks. Topics include micro motion, operational analysis, manual material handling, workstations organization, macro ergonomics, anthropometrics, biomechanics, cumulative trauma disorders, handtool design, controls/displays design, work sampling, stopwatch time studies, predetermined time standard systems, and time allowances.

CC1 4631, Chemistry 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4632, Computer Science 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4633, Mathematics 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4634, Statistics 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4635, Physics 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4636, Computer Science 077, *Computer Programming Laboratory*. Approved for WS1999. Change in catalog description to: A laboratory to accompany Cmp Sc 73 which emphasizes the designing, writing and debugging of programs in Fortran.

CC1 4637, Computer Science 073, *Basic Scientific Programming*. Approved for WS1999. Change in catalog description to: Introduction to the structure of programs and programming techniques in Fortran to solve science and engineering problems. Topics include data representation, basic solutions of numerical problems and the debugging and verification of programs.

CC1 4638, Petroleum Engineering 323, *Artificial Lift*. Approved new course for FS1999. 3 hours credit. Prerequisites: Pe Eng 241 or equivalent. Description reads: This course is a study of artificial lift methods used to produce liquids (oil/water) from wellbores. Methods covered include sucker rod (piston) pumps, electric submersible pumps, gas lift, hydraulic lift and plunger lift.

CC1 4639, Ceramic Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4640, Geological Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4641, Geology 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4642, Geophysics 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4643, Metallurgical Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4644, Mining Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4645, Nuclear Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4646, Petroleum Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examinations for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4647, Management Systems 001, *Introduction to Management Systems*. Approved for FS1999. Change in prerequisite from none “**TO**” Management Systems majors.

CC1 4648, Statistics 444, *Design and Analysis of Experiments*. Approved for FS1999. Change in prerequisites from Stat 344 “**TO**” One of Stat 343, 353, or Eng Mg 387; and one of Stat 211, 213, 215, or 217.

CC1 4649, Physics 011, *Descriptive Astronomy*. Approved for WS1999. This statement will be added to the catalog description, “Credit will not be given for both Physics 9 and Physics 11.”

CC1 4650, Physics 009, *Introductory Astronomy*. Approved for WS1999. This statement will be added to the catalog description, “Credit will not be given for both Physics 9 and Physics 11.”



M. Merrill Stevens, Chair



Office of Student Activities and University Center

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Student Services Coord
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Telephone (573) 341
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January 12, 1999

To: UMR Academic Council

From: Bill Wilson
Student Services Coordinator

Re: **Student Affairs Committee Report For January 21, 1999 Academic Council Meeting**

The Student Affairs Committee met at 1:30 p.m. on Monday, December 4, 1999. The meeting resulted in the following actions/recommendations being made

1. Recommended the acceptance of the Earthquake Engineering Research Institute Constitution by the Academic Council
2. Recommended the acceptance of the Lacrosse Club Constitution by the Academic Council
3. Recommended the acceptance of the Majapahit Martial Arts Group Constitution by the Academic Council
4. Recommended the acceptance of the Society of Explosive Engineers Constitution by the Academic Council

Please call me at 341-4286 (email billw@umr.edu) if you need any more information. Thank you for your help.

Attachments: Earthquake Engineering Research Institute Constitution
Lacrosse Club Constitution
Majapahit Martial Arts Group Constitution
Society of Explosive Engineers Constitution

**Earthquake Engineering Research Institute
University of Missouri-Rolla Chapter**

CONSTITUTION

Article I: Name and Affiliation

The name of this organization shall be the University of Missouri-Rolla Chapter of the Earthquake Engineering Research Institute here after referred to as **EERI/UMR** and shall be affiliated with Earthquake Engineering Research institute- New Madrid Chapter.

Article II: Objective

The objective of this Chapter is to encourage student interest in the advancement of the science and the practice of earthquake engineering and the solution of national earthquake engineering problems in order to protect people and property from the effects of earthquakes, and to develop an awareness of EERI, EERI chapters, and consensus procedures by which EERI operates.

Article III: Membership

- Section 1: The membership of this Chapter shall consist of two classes: Regular Members and Associate Members.
- Section 2: Eligibility to Regular Membership shall be limited to undergraduate and graduate students enrolled at the University of Missouri-Rolla.
- Section 3: Eligibility to Associate Membership shall be limited to UMR Faculty and Staff Members.
- Section 4: Only regular members will have the right to vote and hold offices.

Article IV: Officers

- Section 1: The officers of this Chapter shall be President, Vice-President, and Secretary. These officers along with the advisors will constitute the Board of Directors.
- Section 2: To be eligible for election to office, a candidate must be a Regular Member of the Chapter and meet all the University of Missouri-Rolla requirements.
- Section 3: Nominations will be accepted at the meeting prior to the last meeting of the academic year. The election of the officers shall take place at the last meeting of the academic year.
- Section 4: Officers will be elected by open election. A simple plurality shall be necessary to elect. Only Regular Members in good standing are authorized to vote. The

Article I: Name

Section 1: University of Missouri-Rolla Lacrosse Club

Section 2: The UMR Lacrosse Club will be affiliated with the Central Collegiate Lacrosse league.

Article II: Purpose

Section 1: The goal of the UMR-Lacrosse Club is to teach UMR students and faculty the history and sport of Lacrosse.

Section 2: The purpose of the UMR-Lacrosse Club is to generate interest and awareness of the sport of Lacrosse by general educational services.

Section 3: In addition, the purpose of the UMR-Lacrosse Club is to provide an opportunity for intercollegiate competition.

Article III: Membership

Section 1: Any UMR student or faculty may be a member.

Section 2: Members must meet UMR Academic standards.

Section 3: Members may be removed for malicious behavior by a simple majority vote.

Section 4: The UMR Lacrosse Club will consist of three classes of membership: Regular, Associate, and Honorary

- a. Regular members are those who are students of UMR, have paid their dues, and met the above mentioned criteria for membership.
- b. Associate members are those that are associated with the University, such as faculty, staff, or spouses, and would like to participate in the UMR Lacrosse Club.
- c. Honorary members are those not affiliated with the University, but would like to participate in the club.

Article IV. Officers

Section 1: The UMR-Lacrosse Club will consist of the following officers: President, Vice-president, Secretary, and Treasurer

Section 2: Only regular members can hold office.

Section 3: Other officers may be added as needed.

Section 4: The President will preside over meetings.

Section 5: The Vice-president will assist the president in his duties.

Section 6: The Secretary will keep records of club meetings and send information to club members.

Section 7: The Treasurer will be responsible for club funds.

Article V. Officer Election

Section 1: The term for each officer shall last one year.

Section 2: Any regular member may make nominations.

Section 3: Voting will take place by secret ballot. Each officer will be elected by simple majority.

Section 4: Vacancies will be filled by a member appointed by the highest ranking officer until an election can be held at the next club meeting.

Article VI. Impeachment

Section 1: Any officer may be impeached for actions deemed detrimental to the UMR-Lacrosse Club and its members.

Section 2: An impeachment must be proposed at a club meeting. A majority vote is required to proceed with the impeachment.

Section 3: A vote will be taken at the next club meeting. A two-thirds majority vote is required for impeachment.

Article VII: Advisors

Section 1: The UMR Lacrosse club will elect an advisor by plurality.

Section 2: The advisor will serve a term of one year.

Section 3: The advisor must be a seventy-five percent time faculty or professional staff member of UMR.

Constitution of the Majapahit Martial Arts Group

Article I: Name and Affiliation

Section 1: The name of this organization is the "Majapahit Martial Arts Group of the University of Missouri - Rolla."

Section 2: This organization shall be affiliated with Baker's Combative Arts Academy.

Article II: Purpose

Section 1: To study the martial arts of Southeast Asia, including the countries of Indonesia, Malaysia, Phillippines, Thailand, and China.

Section 2: To provide an alternative form of physical fitness, self-defense, and recreation.

Section 3: To bring about a greater understanding and acceptance of the diverse Southeast Asian arts, history, and culture to the University of Missouri - Rolla.

Article III: Membership

Section 1: Any student of the University of Missouri - Rolla may be a member.

Section 2: In order to join, a person must notify the President of the club of his/her intention and pay the dues. The person is a member upon attending a practice and signing a waiver.

Section 3: A member may be dropped by a two-thirds vote of all members for abusive behavior toward others or equipment.

Article IV: Officers

Section 1: The officers will consist of a President, Vice-President, and Secretary.

Section 2: All officers serve from the second meeting of the academic year to the second meeting of the following academic year.

Section 3: An officer must be enrolled in six hours in the semester(s) they will hold the position, and a 2.0 GPA in the term prior to being elected as per University Regulations.

Section 4: a) Any member may nominate any member eligible to hold an office. Nominations will be made at the first meeting of the academic year. Elections will be held at the second meeting.

b) Officers assume position upon being elected.

Section 5: One vote will be held for each office. Every member not running for that office may vote. Each officer will be elected by a simple plurality vote; the candidate getting the most votes for each office is elected.

Section 6: a) The President organizes meetings and practices. He/She also collects information concerning seminars and tournaments. The President prepares for the Club's trips.

b) The Vice-President maintains equipment and orders new equipment. He/She also prepares the budget and makes requests of Student Council's External Funding Committee.

UMR Society of Explosives Engineers

Constitution Article 1 - Name and Geographic Boundaries

Section 1. The name of this organization is the UMR Society of Explosives Engineers (UMRSEE).

Section 2. Explosives engineering is defined as that area of engineering practice where judgement and experience are utilized in the application of scientific principles and techniques as they pertain to the use, handling, manufacture, transportation and storage of explosives.

Section 3. The geographic boundaries served shall be the UMR campus.

Constitution, Article 2 - Objectives

Section 1. To advance the science and art of explosives engineering.

Section 2. To promote through research, education and every constructive effort explosives engineering for the public good.

Section 3. To provide forums and media through which experiences with the principles and techniques of explosives engineering may be reported, discussed, and published in the furtherance of the general benefit.

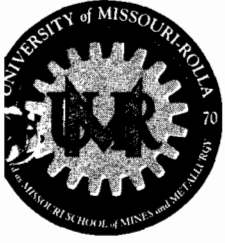
Section 4. To encourage the inclusion of explosives engineering instruction in engineering curricula in educational institutions within the University of Missouri school system area.

Constitution, Article 3 - Membership

Section 1. The membership shall consist of Full (Student) Members, Associate

ACTION ITEMS

Date of Passage	Subject	Referred To
June 19, 1997	New Policy Memorandum on Video and/or Distance Learning	Dr. Park
Oct. 16, 1997	Elimination of Student Anonymous Complaint Letters	Dr. Park
June 25, 1998	Correction of Salary Deficits with Comparable Institutions	Dr. Park



ACADEMIC COUNCIL

VOL.XXVIII,NO. 4
Minutes of the Academic Council Meeting
Thursday, January 21, 1999

XXVII,4. The meeting was called to order at 1:30 P.M. by President Dennis Perry.

.1 It was moved and seconded to approve the minutes of the November 19, 1998 meeting as distributed. Motion carried.

.2 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT

1. President Perry gave a brief report from the last IFC meeting.

a.He announced that Chancellor Schwartz from UMKC is stepping down from his position.

b.They've given out an intercampus calendar that has the key holidays, breaks that all have to adhere to in terms of offering long-distance courses. In other words, the calendar is limited by course delivery commitment.

c.Grievance Procedures presented were approved, and it is hoped that they will be voted on by the Curators in May.

d.President Pacheco discussed the budget situation for next year. The combination of the slowdown of personal income in the state and the Federal method of calculating the budget means less money for us, which means 50 million dollars in discretionary funds rather \$200 million. He guessed maybe 1% raises for next year.

- e. Pacheco said UMC Faculty and Administration are good models for cooperation on budget building.
- f. Robert Stein, Representative from the Coordinating Board for Higher Education, discussed FFR (Funding for Results) used in assessment. Dr. Stein said he is available to come here and work with us.

B. CHANCELLOR'S REPORT

1. Dr. Park gave a brief report on various items of interest.
 - a. The Chancellor explained the state's reasoning for the approximately 230 million dollar reduction in state higher education funding. The Governor's recommended UM operating budget is \$417.9 million.
 - b. Dr. Park said 12 items were listed for funding in the Governor's budget, which included the money for the Butler-Carleton Building.
 - c. The Chancellor gave some of the figures from FFR, as they apply to UMR.
 - d. Dr. Park said the Governor did not cut funding for Mission Enhancement.
 - e. February 16 will be a Strategic Budget Planning meeting, and then will continue into the SAP timetable to be completed in July.
 - f. The decision has been made not to pursue the Baldrige Award this year. Dr. Park said the main reason for this is to use that energy to concentrate on North Central Accreditation.
- Q and A-There was a question from the floor concerning freshman recruitment. Dr. Gajda briefly addressed this concern. There were then other comments and questions from the floor about that concern which were addressed by Dr. Gajda and Dr. Park.

.3 REPORTS OF STANDING AND SPECIAL COMMITTEES

A. COMPUTER POLICY-This report was presented by Dr. Barbara Hale.

1. Professor Hale stated that this year, \$250,000 was used from the Academic Computing Budget to buy PC's for staff.
2. She then proposed the following resolution: That the Academic Council is opposed to the use of Academic Computing funds for staff desktop technology and requests that this use of Academic Computing funds not be made this year nor any year in the future.
 - a.Motion was made by Neil Book to approve this resolution, and seconded by Ken Robertson. After a lengthy discussion, vote was taken, and motion failed.

B. CURRICULA-In the absence of Howard Pyron, the chair of this committee, Professor Ken Robertson presented this report.

1. Professor Robertson moved to approve the CC1's as distributed. There was a second, and after a brief discussion, motion carried.

C. STUDENT AFFAIRS-Bill Wilson presented this report.

1. Mr. Wilson reported that the committee is still looking into the issue of afternoon class scheduling. They are not ready to make a recommendation to the Council.
 - a.There was a question concerning possible rescheduling of extracurricular activities. Mr. Wilson said that would be considered also.
 - b.There were one or two other comments on this issue.
2. Mr. Wilson then presented four constitutions for approval: Earthquake Engineering Research Institute, Lacrosse Club, Majapahit Martial Arts Group and Society of Explosives Engineers. There was a motion and second to approve all four. Motion carried.

.4 No old business was presented.

.5 NEW BUSINESS

A. STAFF COUNCIL-A representative mentioned briefly the web-based staff survey would be due January 29.

B. STUDENT COUNCIL

1. This group announced that work on revisions of their bylaws and constitution is ongoing.
2. On their resolution concerning input on tenure, they are preparing a report for Dr. Reed to present at the next meeting of the Tenure Committee.

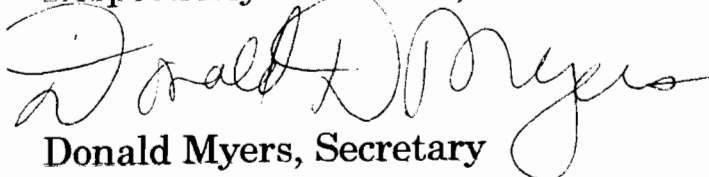
C. REFERRALS

1. Implementation of Cross-Curriculum to Curricula Committee.
2. Development of Web-Based Courses to Personnel Committee.
3. Announcements-Professor Don Myers announced that R P & A had invited the Patent and Copyright Committee to visit UMR on February 18. When the date is confirmed, it will be announced.

There was a comment from Ken Robertson concerning availability of large rooms on campus during testing.

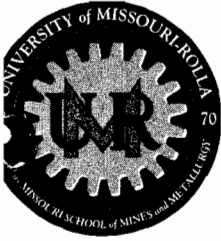
There was a motion and a second to adjourn. Motion carried.

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "Donald Myers".

Donald Myers, Secretary

*Minutes of the Academic Council are considered official notification and documentation of actions approved.



ACADEMIC COUNCIL

To: UMR FACULTY
Academic Council Meeting
204 McNutt, 1:30 P.M., February 18, 1999

- I. Approval of minutes of the January 21, 1999 meeting
- II. Reports and Responses
- III. Reports of Standing and Special Committees
 - A. President's Report(to include IFC)(5 min.)Dennis Perry
 - B. Chancellor's Report (10 min.) John Park
(10 minutes for Questions and Answers)
- III. Reports of Standing and Special Committees
 - A. Admissions and Academic Standards(No report)
 - 1. Inclusion of transfer credits in GPA(11-19-98)
 - B. Assessment (No report)
 - 1. Assessment Tests issues(11-19-98)
 - C. Curricula (5 min.) Howard Pyron
 - 1.*Report No. 6
 - 2. New WAC requirements
 - D. Personnel (No report)
 - 1. Development of Web-based courses
 - E. Student Affairs
 - 1. Afternoon Class Scheduling(10-15-98)
 - F. Tenure (No report)
 - 1. Student input into Tenure/Promotion
- IV. Old Business
 - A. Action Items*
- V. New Business and Announcements
 - A. Staff Council
 - B. Student Council
 - C. Referrals

*Information distributed with agenda to Academic Council members and department chairs.

**IMPORTANT Meeting with UM Patent, Copyright Committee-Immediately following Council meeting-103/ATC Engineering Management-Subject: Faculty Compensation and Ownership for Video and Web-based courses.*

University of Missouri-Rolla
Missouri's Technological University



Registrar's Office
103 Parker Hall
1870 Miner Circle
Rolla, MO. 65409-0970
(573) 341-4181

Memo To: Academic Council
From: UMR Campus Curricula Committee
Re: February 8, 1999

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will be offered in the near future.

Submitted EC1's:

EC1 983, Mathematics 401, *Finite Fields and Applications*. Approved for FS1999. 3 hours credit. Prerequisites: Math 306 or equivalent.

EC1 984, Computer Engineering 401, *Embedded System Design*. Approved for FS1999. 3 hours credit. Prerequisites: Cp Eng 318.

EC1 985, Electrical Engineering 301, *Real Time Digital Signal Processing*. Approved for FS1999. Prerequisites: El Eng 262 or El Eng 267.

EC1 986, English 301, *Apocalypse in the Bible and Literature*. Approved for SS99. 3 hours credit. Prerequisites: English 20 and 1 semester of college literature.

EC1 987, Education 301, *Rolla Writing Project Summer Invitational Institute*. Approved for SS99. 6 hours credit. Prerequisites: Enrollment as teacher of writing of English, K-12/completion of application.

The UMR Campus Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Submitted CC1's:

CC1 4651, Statistics 346, *Regression Analysis*. Approved for FS1999. Change in prerequisites from Stat 213 or 215 or 217 or 343 **"TO"** Math 22 and one of Stat 211, 213, 215, 217, or 343. Co-listed with Computer Science 366.

CC1 4652, Computer Science 366, *Regression Analysis*. Approved for FS1999. Change in prerequisites from Stat 213 or 215 or 217 or 343 “TO” Math 22 and one of Stat 211, 213, 215, 217, or 343. Co-listed with Statistics 346.

CC1 4653, Statistics 453, *Linear Statistical Models*. Approved for FS1999. Change in prerequisites from Stat 344 and Math 208 “TO” Math 208 and Stat 343 and either Stat 353 or 344.

CC1 4654, Statistics 211, *Statistical Tools For Decision Making*. Approved for FS1999. Change in description to: An introduction to statistical techniques commonly used in management decision making. Topics include statistical inference of population parameters, linear regression, basics of experimental design and analysis, analysis of categorical data, and the use of statistical software. Credit will be given for only one of Stat 211, 213, 215, or 217.

CC1 4655, Statistics 213, *Applied Engineering Statistics*. Approved for FS1999. Change in course title from, *Statistical Methodology in Engineering*. Change in description to: An introduction to applied statistical methods in engineering dealing with basic probability, estimation, tests of hypotheses, regression, design of experiments and control charts. Statistical computer packages will be used in connection with some of the material studies. Credit will be given for only one of Stat 211, 213, 215, or 217.

CC1 4656, Statistics 215, *Engineering Statistics*. Approved for FS1999. Change in description to: An introduction to statistical methods in engineering and the physical sciences dealing with basic probability, distribution theory, confidence intervals, significance tests, and sampling. Credit will be given for only one of Stat 211, 213, 215, or 217.

CC1 4657, Statistics 217, *Introduction to Probability and Statistics*. Approved for FS1999. Change in description to: An introduction to probability, distribution theory, statistical inference, and their application to physical and engineering sciences. Topics covered will include probability laws, probability distributions, joint distribution, functions of random variables, system reliability, point and interval estimation, testing hypotheses, regression analysis. Credit will be given for only one of Stat 211, 213, 215, or 217.

CC1 4658, Aerospace Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4659, Chemical Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4660, Chemical Engineering 361, *Environmental Chemodynamics*. Approved new course for FS1999. 3 hours credit. Prerequisites: Ch Eng 141 or equivalent, Ch Eng 231 or equivalent, Ch Eng 233 or equivalent, Chem 1, 2 and 3 or 5. Description reads: The objective of the course is to introduce students to interphase transport of chemicals and energy in the environment. The process oriented aspects of chemical engineering - fundamental chemistry, thermodynamics, fluid mechanics, mass transport, heat transport, equilibrium and separations - are extended to the situations found in the environment where the same principles apply. This course is designed to complement Ch Eng 351, *Environmental Monitoring*.

CC1 4661, Civil Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4662, Computer Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.


CC1 4663, Electrical Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4664, Engineering Management 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4665, Engineering Mechanics 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4666, Environmental Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

CC1 4667, Mechanical Engineering 493, *Oral Examination*. Approved for WS1999. Change in description to: After completion of all other program requirements, oral examination for on-campus M.S./Ph.D. students may be processed during intercession. Off-campus M.S. students must be enrolled in oral examination and must have paid an oral examination fee at the time of the defense/comprehensive examination (oral/written). All other students must enroll for credit commensurate with uses made of facilities and/or faculties. In no case shall this be for less than three (3) semester hours for resident students.

A handwritten signature in black ink, appearing to read 'M. Merrill Stevens', is written over a horizontal line.

M. Merrill Stevens, Chair

Correction to Curricula Committee Minutes of January 13, 1999

EC1 966, Electrical Engineering 301, Smart Materials and Sensors, Fall 1999. This EC1 was returned to the department and replaced by EC1 980.



ACADEMIC COUNCIL

ACTION ITEMS

Date of Passage	Subject	Referred to:
June 19, 1997	New Policy Memorandum on Video and/or Distance Learning	Dr. Park
October 16, 1997	Elimination of Student Anonymous Complaint Letters	Dr. Park
June 25, 1998	Correction of Salary Deficits with Comparable Institutions	Dr. Park



ACADEMIC COUNCIL

VOL.XXVIII,NO.5
Minutes of the Academic Council Meeting
Thursday, February 18, 1999

XXVIII,5.The meeting was called to order promptly at 1:30 P.M. by President Dennis Perry. One substitution was noted-Tsoufanidas for Saperstein.

.1 There was a motion and a second to approve the minutes of the January 21, 1999 meeting as distributed. Motion carried.

.2 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT

1. At the request of the President, there was a motion and a second to adjourn the meeting at 1:50 P.M. because of the Memorial Service for Jered Adams. Motion carried.
2. Professor Perry announced that the Memorial Service would be at Leach Theatre at 2:00 P.M., and there would be a meeting at 3:00 P.M. with the Patent/Copyright Committee.
3. President Perry briefly mentioned how nicely the students and the whole University had rallied around the Pi Kappa Alpha Fraternity members after the fire.

B. CHANCELLOR'S REPORT

1. Dr. Park thanked the Academic Council for their cooperation concerning the Memorial and other efforts for the Fraternity after the loss of their home and one of their members.
2. The Chancellor reminded the Council of the series of Strategic Action meetings, and stated that the dates are posted throughout the campus. He said attendance was not too good at the last meeting, and encouraged everyone to attend the next one.

.3 REPORTS OF STANDING AND SPECIAL COMMITTEES

A. CURRICULA-Professor Howard Pyron presented this report.

1. Professor Pyron mentioned the EC1's for information only, and then moved to approve the CC1's as distributed. There was a second and motion carried.

.4 No old business was presented.

.5 NEW BUSINESS

A. STUDENT COUNCIL

1. Cody May stated that they had met with the Tenure Committee to discuss their resolution on Student Input, and that they should have a memo to present to the Council at the April meeting.

a. There was a question from the floor as to whether Mr. May felt it had been a productive meeting with the Tenure Committee, to which he responded in the affirmative.

B. Professor Tom Kirchoff of the Math Department spoke about a proposed resolution concerning potential final exam time conflicts.

1. President Perry asked the body whether they would suggest attaching a copy of the resolution to the April Academic Council agenda for discussion, or to refer the matter to the Student Affairs Committee.
2. After some discussion, Professor Tsoufanidas moved to refer this item to the Student Affairs Committee. There was a second and motion carried.

C. ANNOUNCEMENTS

1. Professor Susan Murray announced that the Woman of the Year Banquet would be coming up on March 8, and she encourage the members to contact her with nominations.
2. Professor Don Myers mentioned again the meeting with the Patent/Copyright Committee to be held at

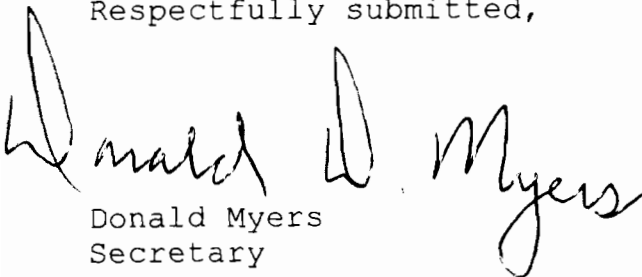
3:00 P.M. at 103 Engineering Management (ATC).
Dr. Gajda said they are visiting all the UM
campuses.

3. Professor Lance Haynes asked if there were any
possibility that a change in Student Input on
Tenure would be implemented without it being brought
back to Academic Council. He suggested that
President Perry make certain that it was sent to
the Council.

4. Cody May announced that he still had six places
open for the Banquet at which Jim Snyder would be
speaking.

The meeting was adjourned at 1:50 P.M. as per the earlier motion.

Respectfully submitted,

A handwritten signature in cursive script that reads "Donald D. Myers". The signature is written in dark ink and is positioned to the left of the printed name and title.

Donald Myers
Secretary

*Minutes of the Academic Council are considered official
notification and documentation of actions approved.



ACADEMIC COUNCIL

UMR FACULTY

Academic Council Meeting
Thursday, April 15, 1999; 1:30 P.M.; 204 McNutt

- I. Approval of minutes of the February 18, 1999 meeting
- II. Reports and Responses
 - A. President's Report (5 min.) Dennis Perry
 - B. Chancellor's Report (10 min.) John Park
(10 minutes for Questions and answers)
- III. Reports of Standing and Special Committees
 - A. Admissions and Academic Standards(10 min.) Kurt Kosbar
 - 1. Inclusion of transfer credits in GPA(11-19-98)
 - B. Assessment (10 min.) Gary Bertrand
 - 1. Assessment tests issues(11-19-98)
 - C. Curricula (5 min.) Howard Pyron
 - *Reports No. 6 and 7
 - D. Personnel (No report)
 - 1. Development of Web-based courses
 - E. Student Affairs (10 min.) Bill Wilson
 - 1. Afternoon Class Scheduling(10-15-98)
 - 2. Potential Final Exam time conflicts(2-18-99)
 - 3. Constitutions*
 - F. Tenure (10 min.) X.B. Reed
 - 1. Student input into Tenure/Promotion
- IV. Old Business
 - A. Action Items*
- V. New Business and Announcements
 - A. Staff Council
 - B. Student Council
 - C. Referrals

*Information distributed with agenda to Academic Council members and department chairs.

UNIVERSITY OF MISSOURI-ROLLA
Missouri's Technological University

Office of the Registrar
103 Parker Hall
Rolla, MO 65401
(573) 341-4181

Memo To: Academic Council
From: UMR Campus Curricula Committee
Re: March 8, 1999, Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will be offered in the near future.

Submitted EC1's:

EC1 986, English 301, *Apocalypse in the Bible and Literature*. Approved for SS99. 3 hours credit. Prerequisites: English 20 and 1 semester of college literature.

EC1 987, Education 301, Rolla Writing Project Summer Invitational Institute. Approved for SS99. 6 credit hours. Prerequisites; enrollment as teacher of writing of English, K-12/completion of application.

EC1 988, Computer Science 301, *Multimedia Information Systems*. Approved for FS99. 3 hours credit. Prerequisites: Cmp Sc 253.

EC1 989, Computer Science 401, *Data Compression*. Approved for FS99. 3 hours credit. Prerequisites: Cmp Sc 253.

EC1 1000, Electrical Engineering 201, *Introduction to Communications Laboratory*. Approved for WS2000. 1 hour credit. Prerequisites: El Eng 261; preceded or accompanied by El Eng 243. (This EC1 was approved in place of CC1 4674 which requested this as a new course. New courses must be offered twice as an experimental course unless they are a required course within the departments curriculum.)

The UMR Campus Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Review of submitted CC1's:

CC1 4668, College of Arts and Sciences. Approved change in the "*Credit by Examination*" outline of classes. Effective Fall 1999. In the Advanced Placement Program the history equivalency was changed to "History 111 or 112."

CC1 4669, Management Systems 000. Approved change in curriculum for FS99. The Psychology curriculum of courses was changed to: (3 hours) Psych 50 (6 hours) Two courses from: Psych 211; Psych 212; Psych 270; Psych 311 or Psych 374.

CC1 4670, Metallurgical Engineering 358, *Steelmaking*. Approved new course for FS99. 3 hours credit. No prerequisites. Description reads: Introduction to the fundamentals and unit processes used to turn impure iron and scrap into steel. Includes desulfurization, BOF and electric furnace operations, ladle metallurgy, casting, and stainless steel manufacture.

CC1 4671, Computer Science 447, *Advanced Topics in Artificial Intelligence*. Approved for FS99 term. Change in course title from, *Artificial Intelligence and Pattern Recognition*.

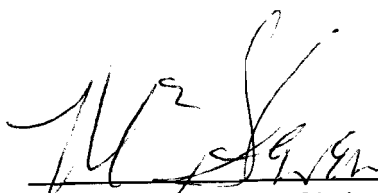
CC1 4672, English 213, *Literature for Adolescents*. Approved for FS99. Change in catalog description to: Primarily intended for teacher certification students. Selection and organization of materials for teaching literature to adolescents. Emphasizes literature written for adolescents and includes a unit of literature of American ethnic groups.

CC1 4673, Computer Engineering 210, *Senior Seminar*. Approved correction of credit hours effective WS99 term. The credit hours were corrected **"FROM"** 1.0 credit hour **"TO"** 0.5 credit hour. The justification reads: This course should have the same credit hours as El Eng 210. The previously approved Cp Eng curriculum had the correct hours of 0.5 for Cp Eng 210.

CC1 4675, Engineering Management 386, *Safety Engineering Management*. Approved for FS99. Change in prerequisite **"FROM"** None **"TO"** ^{4+ prerequisites} Junior standing.

CC1 4676, Geological Engineering 000. Approved new undergraduate emphasis areas effective FS99. The emphasis areas are: Environmental Protection and Hazardous Waste Management, Groundwater Hydrology and Contaminant Transport, Engineering Geology and Geotechnics, Petroleum, Energy and Natural Resources, and Quarry Engineering.

CC1 4677, Geology and Geophysics 000. Approved new emphasis area, "Petroleum Geology" for FS99. Also, the revision of the existing emphasis areas.



M. Merrill Stevens, Chair

UNIVERSITY OF MISSOURI-ROLLA
Missouri's Technological University

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Memo To: Academic Council
From: UMR Campus Curricula Committee
RE: April 5, 1999, Meeting

Correction for the March 8, 1999, Academic Council report. CC1 4669, Management Systems show be corrected to read: CC1 4669, Management Systems 000. Approved change in curriculum for FS99.

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will be offered in the near future.

Review of submitted EC1's:

EC1 991, English 201ML, *T. S. Eliot in England*. (Missouri London Program) Approved for FS1999. 3 hours credit. No prerequisites.

EC1 992, Philosophy & Liberal Arts, Latin 101, *Elementary Latin I*. Approved for FS1999. 3 hours lecture and 1 hour lab. No prerequisites.

EC1 994, Geology 301, *Isotope Geochemistry*. Approved for FS1999. 3 hours lecture. Prerequisites: Geo 113 and Geo 130.

EC1 995, Mining Engineering 401, *Advanced Mine Management*. Approved for FS1999. 2 hours lecture and 1 hour lab. No prerequisites.

EC1 996, Mining Engineering 301, *Tunneling and Underground Construction Techniques*. Approved for FS1999. 2 hours lecture and 1 hour lab. Prerequisites: Mi Eng 231 and Mi Eng 325; or Cv Eng 211 preceded or accompanied by Cv Eng 245; or Ge Eng 341.

EC1 997, Philosophy & Liberal Arts, Education, *Foreign Language Teaching Methods*. Approved for SS1999. 3 hours lecture. Prerequisites: Education 164, 174, 280.

EC1 998, Computer Science 401, *Visualization with Java*. Approved for FS1999. 3 hours lecture. Prerequisites: Java or C++.

EC1 999, Physical Education & Recreation 201, *Fitness Cross-Training*. Approved for WS2000. 1 hour lecture and 1 hour lab. No prerequisites.

EC1 1001, English 201, *Teaching and Supervising Writing*. Approved for WS2000. 3 hours lecture. Prerequisites: 6 hours of college-level writing courses.

The UMR Campus Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Review of submitted CC1's:

CC1 4679, Aerospace Studies 150, *Foundations of the U.S. Air Force I.* Approved for FS1999. Change in course title from, "*The Air Force Today I.*" Change in description to: This survey course is designed to introduce students to the USAF and AFROTC. Topics include: military customs and courtesies, uniform wear, officership qualities, professionalism, AF core values, equal opportunity and treatment, AF officer benefits and opportunities and an introduction to communication skills. Leadership Lab is mandatory for cadets planning on a career in the AF.

CC1 4680, Aerospace Studies 151, *Foundations of the U.S. Air Force II.* Approved for FS1999. Change in course title from, "*The Air Force Today II.*" Change in description to: This survey course is a continuation of AS 150. Covered topics include: origin of the Air Force, mission and organization of the Air Force, organization of a standard Air Force base, and further communication skills development. Leadership Lab is also mandatory for cadets.

CC1 4681, Aerospace Studies 250, *The Evolution of USAF Air and Space Power I.* Approved for FS1999. Change in course title from, "*The Development of Air Power I.*" Change in description to: This course is designed to examine the general aspects of air and space power through a historical perspective..covering a time period from the first balloons to the beginning of the space age. It provides students with a knowledge level understanding of the general elements and employment of air and space power from an institutional doctrinal and historical perspective. Examples of the importance of AF core values in historical events and in past AF leaders are pointed out. Continued development of communication skills is also emphasized. Leadership Lab is mandatory for cadets planning on a career in the A F.

CC1 4682, Aerospace Studies 251, *The Evolution of USAF Air and Space Power II.* Approved for FS1999. Change in course title from "*The Air Force Way II.*" Change in description to: This course is a continuation of AS 250. It covers a time period in AF history from the beginning of our space age in the early 1960's to the present...with a continued emphasis on recognizing how past leaders and events have shaped our current AF organization and doctrine. Communication skills exercises are continued. Leadership Lab is also mandatory for cadets.

CC1 4683, Aerospace Studies 350, *Air Force Leadership Studies I.* Approved for FS1999. Change in course title from, "*Air Force Management and Leadership I.*" Change in course description to: This course introduces students to the leadership and management skills required of an Air Force junior officer. Special topics include leadership ethics, the Air Force personnel and evaluation systems, and management fundamentals. Through the use of classroom tools that include case studies, Air force leadership and management situations are examined and practical applications of studies concepts are exercised. The principles and theories of ethical behavior as well as the complete understanding of the individual responsibility and authority of an Air Force officer are stressed. This course includes a Leadership lab that provides the students the opportunity to apply leadership and management principles.

CC1 4684, Aerospace Studies 351, *Air Force Leadership Studies II*. Approved for FS1999. Change in course title from, "*Air Force Management and Leadership II*." Change in course description to: This course is a continuation of AS 350. Emphasis is placed on professional knowledge, communication skills, and ethical behavior. Varied Air Force-peculiar formats and situations are offered to apply learned listening, writing, and speaking skills. This course includes a Leadership lab that provides the students the opportunity to apply leadership and management principles.

CC1 4685, Aerospace Studies 380, *National Security Affairs/Preparation for Active Duty I*. Approved for FS1999. Change in course title from , "*National Security Forces in Contemporary American Society I*." Change in course description to: This course examines national security policies, processes, and issues along with Air Force strategy and doctrine. Special topics include Air Force roles and missions, the roles of various federal government departments, military organizations and functions, and the concept of joint operations. Within this structure, continued emphasis is given to refining communication skills. This course includes a leadership Laboratory that provides advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

CC1 4686, Aerospace Studies 381, *National Security Affairs/Preparation for Active Duty II*. Approved for FS1999. Change in course title from, "*National Security Forces in Contemporary American Society II*." Change in course description to: Continuation of AS 380. This final course of the Air force ROTC curriculum examines officership, advanced leadership ethics, military law, current Air force issues, regional studies, core values, and preparation for active duty. This course includes a Leadership Laboratory that provides leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

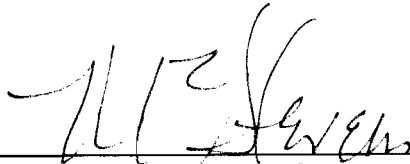
CC1 4687, Engineering Management. Approved Master's degree in Manufacturing Engineering for FS1999. A Master of Science in Manufacturing Engineering and a Master of Engineering in Manufacturing Engineering. Frank Liou was present at the meeting for any questions about the new degree program. Dr. Liou is Chair of the Interdisciplinary committee which oversees the implementation of the Manufacturing Engineering degree.

CC1 4688, Civil Engineering 424, *Structural Dynamics and Earthquake Engineering*. Approved for FS1999. Change in course title from, "*Structural Dynamics*." Change in course description to: Behavior of structural materials, elements, and systems under dynamic loads earthquake excitation; computer methods for response analysis of lumped, consistent, and distributed mass models; eigensolution techniques; design of 2-D and 3-D seismic-resistant structures with current building code.

CC1 4689, Civil Engineering 428, *Analysis of Nonlinear Structures*. Approved for FS1999. Change in course title from, "*Matrix of Nonlinear Structures*." Change in course description to: In elastic behavior of structural members and connections; formulation of various models for steel and reinforced concrete including elasto-plastic, bilinear, trilinear, Ramberg-Osgood, Cheng-Mertz, and Cheng-Lou; matrix analysis of 2-D and 3-D building structures for geometric and material nonlinearity; dynamic and stability analysis.

CC1 4690, Electrical Engineering 475, *High-Speed Digital Design*. Approved new course for FS1999. 3 hours credit. Prerequisite: El Eng 275. Description reads: Techniques for designing and building high-speed digital circuits on printed circuit boards or multi-chip modules. Component and package selection, power bus design, decoupling, parasitic elements, grounding, shielding, and high-speed measurement techniques.

The Curriculum Committee was asked by Dennis Perry, President of the Academic Council, to address how to proceed with implementing the General Education requirement approved by the UMR Academic Council and mandated by the UM Board of Curators, to incorporate a Communicating Across the Curriculum program into the undergraduate curriculum. After some discussion, the Curriculum Committee derived two courses of action. One of which included developing a CC1 form for each course involved and tracking the program requirements on the student's CAPs report. The other included an approach similar to that of documenting ABET requirements. Whereby the department tracks the program requirements and internally documents that these requirements have been met. The Curriculum Committee recommended the latter approach.

A handwritten signature in black ink, appearing to read 'M. Merrill Stevens', is written over a horizontal line.

M. Merrill Stevens, Chair



Office of Student Activities and University Center

Bill Wilson
Student Services Coordinator
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Rolla, MO 65409-0770
Telephone (573) 341-4286
FAX (573) 341-6026
E-Mail: billw@umr.edu

April 5, 1999

To: UMR Academic Council

From: Bill Wilson
Student Services Coordinator

Re: **Student Affairs Committee Report For April 15, 1999 Academic Council Meeting**

The Student Affairs Committee met at 1:30 p.m. on Friday, April 2, 1999. The meeting resulted in the following actions/recommendations being made

1. Recommended the acceptance of the Arab Student Club Constitution by the Academic Council
2. Recommended the acceptance of the Chinese Student and Scholars Association Constitution by the Academic Council
3. Recommended the acceptance of the Jewish Student Association Constitution by the Academic Council
4. Recommended the acceptance of the Society of All Paths Constitution by the Academic Council
5. Recommended the acceptance of the Society of Phenomenal Women Constitution by the Academic Council
6. Recommended that Academic Council, in conjunction with the Registrars Office, adopt a policy of providing "academic free time" between the hours of 4:30 p.m. and 6:30 p.m. on Tuesdays and Thursdays.

Please call me at 341-4286 (email billw@umr.edu) if you need any more information. Thank you for your help.

Attachments: Arab Student Club Constitution
Chinese Student and Scholars Association Constitution
Jewish Student Association Constitution
Shotokan Karate Club Constitution
Society of All Paths Constitution
Society of Phenomenal Women Constitution
Academic Free Time

Academic "Free Time" Information

The Student Affairs Committee has reached a recommendation on the matter of the referral discussing an Academic "Free Time." The committee asked Laura Stoll, Registrar, to attend their April 2nd meeting so that it could make a more informed decision. The committee was concerned with many issues on this subject ranging from the affected student population to conflicting course scheduling. There were 281 sections scheduled during the Fall 1998 semester between the proposed times of 3:30 p.m. to 6:30 p.m. (Monday thru Friday). Of these 281 sections, only 70 began at 6:00 p.m.. If we were to consider a time period of 4:30 p.m. to 6:00 p.m. the only significant conflict is math and physics common exams. However, only an hour and a half doesn't allow a considerable amount of time for what was outlined in the referral.

After thorough consideration the committee decided the most feasible and currently practical decision to be that of an Academic "Free Time" of 4:30 p.m. to 6:30 p.m. on Tuesday and Thursday of every week. There would also be a need to move night classes that are scheduled from 6:00 p.m. to 9:00 p.m. throughout the week to 6:30 p.m. to 9:30 p.m.. Currently the committee is also under the assumption that the common math and physics exams are held on Tuesday and Wednesday afternoons. The committee believes that the best solution for the Tuesday common exam conflict would be to move the exams to Monday afternoons. It is the opinion of the Student Affairs Committee that the suggestions in this referral would be the most efficient use of time and effort in the trial of opening up an Academic "Free Time."

CONSTITUTION OF THE ARAB STUDENTS CLUB

University of Missouri-Rolla

April 5, 1999

ARTICLE I: NAME

The name of this organization shall be "The Arab Students Club" which shall hereafter be referred to as ASC or the club.

ARTICLE II: PURPOSE

1. Create an academic and social environment for Arab students at UMR.
2. Create greater awareness of the Arab culture and promote better awareness of the Arab society.
3. Organize cultural events in conjunction with other organizations on and off UMR campus.
4. Establish friendly relations between Arab students and non-Arab students at UMR.

ARTICLE III: MEMBERSHIP

Section 1: Full Membership

1. All UMR students are eligible to become full members of ASC.
2. No specific class standing or grade point average is required.
3. All full members must pay membership fee and comply with this constitution.
4. All full members have the right to vote and hold office.

Section 2: Associate Membership

1. All UMR faculty and staff are eligible to become associate members.
2. All dependants of the full members are eligible to become associate members.
3. All associate members must pay membership fee and comply with this constitution.
4. All associate members are ineligible to vote or hold office.

Section 3: Honorary Membership

1. Honorary membership may be given to any individual who has made significant contributions or provided great services to ASC.
2. All honorary members must be nominated by a full member and approved by a two-third (2/3) majority vote of the quorum at a general meeting of the club.
3. All honorary members are ineligible to vote or hold office.

Section 4: Membership Dues

1. The membership fee shall be decided by the executive committee and approved by a two

THE CONSTITUTION OF THE CHINESE STUDENTS AND SCHOLARS ASSOCIATION AT UMR

(Passed in 1998)

I. The Name

Article 1: This organization shall be named "Chinese Students and Scholars Association at University of Missouri-Rolla", abbreviated as CSSA.

II. Aims and Objectives of the Organization

Article 2: CSSA is a completely independent and non profit organization mainly representing the Chinese students and scholars at UMR from the People's Republic of China. The purpose of CSSA is to serve as the representative of Chinese students and scholars at University of Missouri-Rolla, to safeguard and promote its members' interests, to seek to promote communication and cultural interaction between the different people in the local community, to make everyone here aware of the colorful, rich and diverse Chinese culture that we bring with us.

III. Membership

Article 3: All Chinese students and scholars at UMR and their spouses from the People's Republic of China are qualified to join CSSA. Students and scholars of Chinese origin from other places are also welcome

Article 4: Any UMR student qualified to be a member of CSSA will become a regular member after his formal application and paying the annual membership fee.

Article 5: Associate membership shall be extended to those who have an interest in CSSA. An associate member shall pay associate membership dues. An associate member shall have the right to speak but not to vote or hold office.

Article 6: A regular member will lose his membership in one of the following situations: 1, Graduation; 2, Permanent leaving; 3, Self termination; 4, serious misdemeanor against CSSA.

Article 7: CSSA accepts communicating members, the communicating members have no rights to vote or to stand for election.

IV. Officers

Article 8: The board of officers is composed of four members: one president, one vice president, one treasurer and one secretary. Among them at least one should be a female member.

Article 9: The officers shall be elected by CSSA at its business meeting during the beginning of each winter

CONSTITUTION
of the
**Jewish Student
Association**
at the
University of Missouri-Rolla

ARTICLE I
Name

Section 1. The name of the organization shall be the "JEWISH STUDENT ASSOCIATION" at the University of Missouri-Rolla.

ARTICLE II
Objectives

Section 1. The primary objective shall be the promotion of Jewish education and culture among the Jewish student body and other interested members of the university community. Included in this shall be the establishment and operation of a Jewish topics library that will be available to members of the organization.

ARTICLE III
Membership

Section 1. Membership

Membership is open to all UMR students maintaining at least a 2.0 GPA.

Section 2. Classes of Membership

1. Active members are those who qualify under section 1 of this article.
2. Associate members may consist of any faculty or staff of the university.
3. Honorary members may be appointed upon recommendation of any Active member and approval by 3/4 vote of the Active members. Honorary membership implies an open invitation to all organizational activities, and such members shall be kept informed of these activities.

Constitution - Rough Draft

I. Name, Insignia and Affiliation

- A. Name: Society Of All Paths
- B. Insignia: Oak Tree

II. Aims and Objectives of the Organization

- A. To provide an organization where students involved in or interested in the various nature-based pagan religions, which include, but are not limited to, paganism, Wicca, druidism, Asatru and shamanism, can learn and speak about their beliefs as well as offer a safe haven for those of pagan beliefs who would otherwise have very little outlet for their beliefs.
- B. To respectfully educate those of both pagan and non-pagan belief systems about the facts and fallacies regarding paganism, witchcraft and similar topics. This does not include proselytizing, evangelizing, preaching, condemning the beliefs of others as wrong or bad, or any other manipulative and disrespectful methods of teaching about certain beliefs.

III. Membership

A. Qualifications:

- 1. Students of any religion or theism may apply to join.

B. Class of Membership

1. Regular Members

- A. Must be enrolled in classes at the University of Missouri-Rolla

B. Rights

- To vote
- To hold office
- To make suggestions regarding the organization, constitution, and any activities the organization is involved in
- To choose to participate or not participate in organizational functions with which s/he may or may not agree
- To respectfully agree or disagree with the opinion of any other member or officer
- To ask for moral support when faced with opposition or other stresses involved with his/her beliefs and/or the organization
- To privacy concerning his/her beliefs outside of Society functions
- To attend all public functions and rituals performed by the organization

2. Associate Members

- A. Must be current staff or faculty at the University of Missouri-Rolla

- B. Associate Members have the same rights as Regular Members with the exception of the right to vote and the right to hold office

3. Honorary Members

- A. Qualifications

The Society of Phenomenal Women
University of Missouri-Rolla
April 2, 1999

I. Name

The official name of the organization shall be The Society of Phenomenal Women. The complete title or its abbreviation, SPW, may be used in this document and in all other transactions of official business.

II Mission Statement

The Society of Phenomenal Women is a celebration of womanhood, holding clear intent to empower women on the UMR campus by providing opportunities for education and growth.

With a feminist goal of equal treatment for all people in mind, SPW will celebrate womanhood by:

- Increasing awareness of political, educational, and social conditions of women locally and globally
- Facilitating experiences to enhance self-discovery and personal effectiveness
- Challenging the status quo for women through advocacy and support of women who are experiencing discrimination, abuse, or harassment.

Because equal treatment requires that all people receive the respect they deserve, the Society of Phenomenal Women will provide a forum to initiate understanding between the sexes through exploratory dialog.

III. Membership

A. Class:

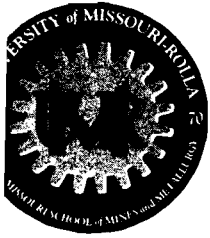
1. Regular membership shall be open to any UMR student. The student must be in good standing with the University of Missouri-Rolla and in good standing financially with SPW.
2. Associate membership may be given to Faculty and Staff of the University.
3. Honorary membership may be granted to those outside the University to recognize persons whose views and efforts are similar to SPW.

B. Becoming a Regular member:

1. No vote is required for regular membership. A majority vote is required for Honorary membership. Nominations can be made at any meeting.
2. Requirements for members shall be completion of SPW application and payment of dues.
3. All members must belong to at least one task force. The V.P. makes this decision after the member ranks Task Forces by preference in the application.

ACTION ITEMS

Date of Passage	Subject	Referred to:
June 19, 1997	New Policy Memorandum on Video and/or Distance Learning	Dr. Park
October 16, 1997	Elimination of Student Anonymous Complaint Letters	Dr. Park
June 25, 1998	Correction of Salary Deficits with Comparable Institutions	Dr. Park



ACADEMIC COUNCIL

VOL. XXVIII, NO. 6
Minutes of the Academic Council Meeting
Thursday, April 15, 1999

XXVII,6.The meeting was called to order at 1:30 P.M. by President Dennis Perry. No substitutions were noted.

.1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT

1. Professor Perry stated that IFC was again discussing Post Tenure Review. He said UMR should tackle the subject ourselves with fact finding, checking what other schools are doing, etc. He suggested it might be referred to Don Myers, as Chair of the Personnel Committee. There was a motion and a second to have the Personnel Committee look into the issue of Post Tenure Review. Motion carried.

B. VICE-CHANCELLOR'S REPORT

1. Dr. Gajda first reminded the Council that the NCRAC would be on campus from Sunday, April 18 to Wednesday, April 21. He elaborated somewhat on what this Accreditation Team might be asking for, and urged everyone to be ready to cooperate.
2. The vice-chancellor then mentioned that pre-enrollment for next fall's freshman was better than anticipated.

QUESTIONS AND ANSWERS

1. There were a few questions and comments from the floor concerning the accreditation visit.
2. Dr. Gajda responded to a request to report on the reasons for the delay in providing last semester's faculty teaching evaluations. He reported that the delay was a result of his placing admissions as a priority item for the Computer Center.

.2 REPORTS OF STANDING AND SPECIAL COMMITTEES

A. ADMISSIONS AND ACADEMIC STANDARDS-Professor Kurt Kosbar presented this report on Inclusion of Transfer Credits in GPA's and he stated that the committee affirms the current way to include them in graduation requirements and GPA.

1. There was a comment from the floor questioning whether transfer credits had ever been included in GPA's. Professor Kosbar explained that there are varied GPA's-Accumulative, UMR, and UM.

B. ASSESSMENT-Professor Gary Bertrand presented this report on Assessment Tests Issues.

1. Professor Bertrand stated that the feeling is that UMR's students don't do as well as they should on these tests, which affects Funding for Results. A copy of the committee's report was distributed (See attached).
2. There were a few brief comments from the floor.

C. CURRICULA-Professor Howard Pyron presented the EC1's for information only, and moved to approve the CC1's (from March and April) as distributed. There was a second and motion carried.

1. President Perry then referred to the last paragraph in the April Curricula Committee Report concerning implementing the General Education requirement to incorporate a Communicating Across The Curriculum program into the undergraduate curriculum.

a. As chair of the Implementation Committee for Communicating Across the Curriculum, Professor Jeff Cawlfeld elaborated on this, and requested a resolution from the Council stating that the Fall '99 or 2000 Freshman would begin implementation of the Committee's recommendation.

b. After a brief discussion, Professor Cawlfeld made a motion (See attached). Professor Ken Robertson seconded.

c. Following the motion, there was a lengthy discussion, followed by Professor Linda Be reading the original requirement, passed (March 25, 1993. (See attached)

d. Professor Lance Haynes moved to table the motion. There was a second. Vote was taken and motion failed.

e. There was a motion to amend the original motion by splitting writing and oral communication. There was a second. After another lengthy discussion, the motion to amend was withdrawn.

f. Professor Dan White moved to postpone action on the original motion to the June meeting. Professor Lance Haynes seconded. Motion carried.

D. STUDENT AFFAIRS-This report was presented by Bill Wilson.

1. This committee presented five constitutional approval as previously distributed.

a. There was a motion and a second to approve these, with clarification on the Chinese Club membership requirements. After some discussion the motion was amended to approve the four constitutions, excluding the Chinese Club. There was a second and motion carried.

E. TENURE-This report was presented by Professor Reed.

1. Copies were distributed of this committee's response to Student Resolution 9899R3. Cody Passed out copies of the original resolution both attached).

2. Professor Ken Robertson moved that the request be acknowledged as received by the Academic Council. There was a second and motion carried.

Due to the lateness of the hour (3:20 P.M.), all other business was postponed to the next meeting. There was a motion and second to adjourn. Motion carried.

Respectfully submitted,

Donald Myers
Secretary

*Minutes of the Academic Council are considered official notification and documentation of actions approved.

Assessment Committee Report

The Assessment committee met regarding the performance of our students on their final general education assessment. Since "Funding for Results" dollars are based on this performance, it is in the best interest of the campus that our students score as high as possible on this exam. There is a general perception that our students do not take the test seriously; they do not score as well as they should, and we miss out on some benefits as a result.

The suggestion of including the student's performance on his/her transcript was advanced (again), and the committee was generally opposed (again).

The general feeling of the committee was that this performance issue is best handled at the Departmental level. Some portion of the "Funding for Results" dollars might be used to provide incentives for Departments to improve the performance of their students. There was a suggestion of finding some way of tying performance on this exam to course credit within the department. This was generally opposed by the committee.

Respectfully submitted,



Mary L. Bertrand
Committee Member

MOTION

The following requirement will be formally incorporated into each UMR undergraduate curriculum and will become effective and will apply to the Fall 2000 entering freshmen class and all subsequent catalog years. This requirement will be published in all appropriate UMR literature, including the UMR Undergraduate catalog:

Each department will provide students with opportunities to enhance their writing and speaking skills (beyond the required English 20 class) by requiring that they complete at least two Communication Intensive courses, at least one of which should be in the student's major. Communication Intensive (CI) courses may be focused on writing, speaking, or combinations thereof. Two Communications Emphasized (CE) courses may be used as the equivalent of one CI course (for example, four CE courses would substitute for two CI courses, but two of the CE courses must be in the student's major as an appropriate substitute for the one CI course in the student's major). Certification of these courses as CI or CE will occur through procedures established by the Director of the Center for Writing Technologies, the Director of the Excel Center for Leadership and Communications Studies, and the Implementation Committee for Communication Across the Curriculum. These requirements should be formally tracked and monitored by the CAPS advising system to ensure that each graduating student is meeting the Communications component of the General Education requirement as stated in this motion.

On March 25, 1993, the UMR Academic Council passed an amended form of the General Education requirement related to writing and speaking skills as follows:

Each curriculum is to include English 20 as a required course. Each department is to develop a plan which will provide students with opportunities to enhance their writing and speaking skills through at least two writing-intensive and/or oral communications courses; at least one of which should be in the student's major. Methods of evaluating students' communication skills are to be included in the plan.

Since the passage of the above requirement, the Task Force on Communications Across the Curriculum issued a 1994 report, the Center for Writing Technologies was established and staffed, and a number of departments developed Writing Emphasized courses. Dr. Gajda established an Implementation Committee for Communication Across the Curriculum, which has been working for some time on the implementation, certification, and monitoring of this specific Communications component of the General Education requirements. The Implementation Committee in 1998 passed a resolution asking the UMR administration to support staffing an Oral Communications initiative in the Excel Center for Leadership and Communication Studies, parallel to efforts in the Center for Writing Technologies. In addition, the Implementation Committee believes it is time to move into the next phase which involves setting a date for requiring that students satisfy the Communications component of the General Education requirement, and establishing a mechanism to monitor satisfaction of the requirement.

The Curriculum Committee of Academic Council reviewed a resolution from the Implementation Committee which is very similar to the motion following on the next page, and their response is given in the minutes of their April 5, 1999 meeting.



Student Council

202 University Center West
1870 Miner Circle
Rolla, MO 65409-0770
Telephone: (573) 341-4280
E-mail: stuco@umr.edu
<http://www.umn.edu/~stuco>

Passed September 30, 1998

Resolution 9899R3

Resolution Toward Further Student Input on Tenure of Professors

WHEREAS, the UMR Student Body wants more student input on tenure of professors, and

WHEREAS, the following information encourages student input in the tenure process assuming it is collected in the correct fashion,

“Teacher evaluation questionnaires are often very helpful, especially if buttressed by the chairman’s or dean’s interpretation of the data and by comparative data.”

Past President Olsen’s memo titled “University of Missouri Systemwide perspectives on Promotion and Tenure”

<http://www.umn.edu/~ac-afrs/olson.html>

“Letters from former students, departmental colleagues, research collaborators or former mentors cannot be considered to be objective and unbiased, however well-intended, and may therefore detract from the recommendation.”

Past President Olsen’s memo titled “University of Missouri Systemwide perspectives on Promotion and Tenure”

<http://www.umn.edu/~ac-afrs/olson.html>

“Letters intended to truly be external references should be solicited by either the dean’s office or the department chair’s office utilizing names supplied by an independent third party other than the candidate.”

UMR Academic Affairs Office “Comments Concerning Letters of Support”

<http://www.umn.edu/~ac-afrs/documentation.html>

“Student letters of support are of value if they are solicited by a third party under controlled conditions. If used to document teaching effectiveness, student letters must be collected in a manner which is statistically meaningful...”

UMR Academic Affairs Office “Comments Concerning Teaching Performance”

<http://www.umn.edu/~ac-afrs/documentation.html>

“The department chair’s comments are, perhaps, the single most important part of the dossier. The effort involved is large, but the promotion and tenure decisions have a critical impact on the future of the department.”

UMR Academic Affairs Office “Comments Concerning the Narrative Report by the Department Chair”

<http://www.umn.edu/~ac-afrs/documentation.html>

“Evidence of teaching quality should be presented. Candidates are encouraged to show evidence in addition to the computer-processed student assessments. However, the value of this evidence is compromised unless it is obtained in a method which demonstrates impartiality. Extensive documentation should be included in a separately bound appendix.”

UMR Academic Affairs Office “Comments Concerning Teaching Performance”

<http://www.umn.edu/~ac-afrs/documentation.html>

“However, it should be recognized that there are certain indicators that point to good teaching. Good teachers receive public recognition in a variety of ways. Students, both individually and through organizations, seek them out more often. They make more innovative contributions in courses, sometimes whole curricula. Their students demonstrate achievement in learning. They often serve on more student committees and carry heavier advising loads. In short they are known for their enthusiasm and involvement in the educational process of students. Any evidence which truly documents such contributions is strongly encouraged.”

Past President Olsen’s memo titled “University of Missouri Systemwide perspectives on Promotion and Tenure”

<http://www.umn.edu/~ac-afrs/olson.html>

WHEREAS, students often don’t realize the impact of an instructor on their education and/or career and/or life until later after a class is completed, and

WHEREAS, it is feasible for the registrar to send department chairs a list of past students that a professor had so that a department chair could receive a statistically meaningful amount of information, and

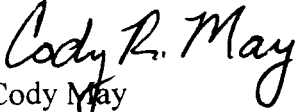
WHEREAS, it is also feasible for the chair to survey and request letters of reference from a pre-selected list of students from the registrar’s office, and

WHEREAS, it would be mutually beneficial for the University and the Student Body to provide this information to those reviewing the dossier in the consideration of a professors tenure and/or promotion;

THEREFORE, be it resolved that the Student Council of the University of Missouri – Rolla request that student input on tenure and promotion be furthered by the following supplications. The registrar’s office shall be notified when a professor is coming up for tenure by the appropriate department. It shall be the registrar’s duty to compile a list of students for that department’s chair. The only restrictions on the selection are 1. It is a random selection, 2. There are enough students on the list so that it is statistically meaningful, 3. It is a mixture of undergraduates, graduates, and alumni, and 4. That the professor instructed the students selected for a full semester. The department chair is then responsible for collecting information from the selected students about the professor up for tenure. It is recommended that the department chair

use a survey to poll the students and also to ask for letters of recommendation. After collecting the results of these efforts it will be his/her responsibility to include and narrate on the results of the surveys and the content of the letters in the dossier. The University of Missouri – Rolla Student Body also feels that the Promotion and Tenure Committee, the Vice Chancellor for Academic Affairs, and the Chancellor put special consideration into the survey results and letters of recommendation gathered by the department chair. It is also recommended that the Vice Chancellor for Academic Affairs, the Promotion and Tenure Committee, and the Chancellor develop the appropriate campus standard for polling selected students. The University of Missouri – Rolla Student Body feels that this resolution should become university policy.

Respectfully submitted,

A handwritten signature in black ink that reads "Cody R. May". The signature is written in a cursive style with a large, stylized "M" at the end.

Cody May
University Relations Chairman

TENURE COMMITTEE RESPONSE TO STUDENT RESOLUTION 9899R3

1) The resolution in its present form is unacceptable, entailing procedures which are cumbersome and often duplicative of the evaluation procedures already in place.

2) Mr. May explained that the motivation behind the Student Council resolution was a student survey which showed that UMR's students want to play a role in the tenure process. Several faculty replied that students already play a considerable role via the CET scores; these scores provide detailed evaluation by students of their professors over an extended period of time. It was also emphasized that teaching receives much closer scrutiny by departments and by tenure/promotion committees in tenure cases than students feel is the case.

3) Many UMR departments already solicit letters randomly in tenure cases. The Tenure Committee suggests that other departments consider such a solicitation but is opposed to making the solicitation mandatory. In some instances the additional input provided by the letters might be helpful, but in other instances (e.g. faculty with outstanding CET scores) the letters might be expected to add little that is new.

4) In any case, the Student Council request that the solicited letters be given special consideration after the current procedure is completed drew a unanimous expression of concern; the letters might on occasion provide an additional piece of a puzzle but should in no case be regarded as having greater significance than the detailed CET scores or other evidence presented in the tenure dossier.

5) Committee members also noted that if CET scores require interpretation, proper perspective can be provided by the chair to the tenure/promotion committees. For example, this might pertain to teachers of courses which traditionally produce low CET scores

6) There is therefore no shortage of attention already being directed at the concern expressed in the student survey, namely, that student opinion of a prospective tenure's teaching performance was not being seriously considered in the tenure process.



ACADEMIC COUNCIL

To: UMR FACULTY

Academic Council Meeting
Thursday, June 17, 1999; 1:30 P.M.; 204 McNutt

- I. Approval of minutes of the April 15, 1999 meeting
- II. Reports and Responses
 - A. President's Report (5 min.) Dennis Perry
 - B. Chancellor's Report (10 min.) John Park
(10 minutes for Questions and Answers)
- III. Reports of Standing and Special Committees
 - A. Curricula (15 min.) Merrill Stevens
1.*Report No. 8
 - B. Personnel
 - 1. Development of Web-based courses(No report)
 - C. Rules, Procedure, and Agenda (5 min.) Bruce Selberg
1. Committee Elections
 - D. Student Affairs (10 min.) Bill Wilson
 - 1. Afternoon Class Scheduling (10-15-98)*
 - 2. Potential Final Exam time conflicts (2-18-99)
 - 3. Constitution-Chinese Students & Scholars*
- IV. Old Business
 - A. Action on Writing Across the Curriculum postponed April
 - B. Action Items*
- V. New Business and Announcements
 - A. Staff Council
 - B. Student Council
 - C. Referrals

*Information distributed with agenda to Academic Council members and department chairs.

UNIVERSITY OF MISSOURI-ROLLA
Missouri's Technological University

Office of the Registrar
103 Parker Hall
Rolla, MO 65409
(573) 341-4181

Memo To: Academic Council
From: UMR Campus Curricula Committee
RE: May 17, 1999, Meeting

For the information of the Academic Council, the following EC1's have been submitted by the University departments for an experimental course that will offered in the near future.

Approved EC1's:

EC1 1002, History 301, *The European Reformation*. Approved for FS1999. 3 hours credit. Prerequisites: History 111 or 112.

EC1 1003, Statistics 301, *Making Sense of Data, for High School Teachers*. Approved for SS1999. 3 hours credit. No prerequisite.

EC1 1004, Civil Engineering 301, *Smart Civil Engineering Structures*. Approved for WS2000. 2 hours lecture and 1 hour lab. Prerequisites: Senior standing and Bas Eng 110 or Bas Eng 140.

EC1 1005, Geological Engineering 301, *Engineering Geomorphology*. Approved for FS1999. 3 hours credit. Prerequisite: Ge Eng 275.

EC1 1006, Geological Engineering 401, *Advanced Engineering Geomorphology*. Approved for FS1999. 3 hours credit. Prerequisite: Ge Eng 275.

EC1 1007, Basic Engineering 301, *Introduction to Solar Car Design*. Approved for WS2000. 3 hours credit. Prerequisites: Math 204 or 229.

EC1 1009, Basic Engineering 101, *UMR Pre-Freshman HGT*. Approved for SS1999. 3 hours credit. No prerequisite. (This course was approved at a special meeting on April 22, 1999.)

EC1 1010, Ceramic Engineering 301, *Chemical Processes in Refractories*. Approved for FS1999. 3 hours credit. No prerequisites.

EC1 1011, Geological Engineering 301, *Environmental Law*. Approved for FS1999. 3 hours credit. Prerequisites: Senior or Graduate standing.

EC1 1014, Geological Engineering 301, *Missouri Mineral Resources*. Approved for SS1999. 1 hour credit. Prerequisites: BS/BA Degree with Teaching Certification. (Co-listed with Mining Eng 301)

EC1 1015, Engineering Management 301, *System Engineering and Analysis I*. Approved for FS1999. 3 hours credit. Prerequisite: Graduate or senior standing.

EC1 1016, Engineering Management 401, *Systems Engineering Analysis II*. Approved for WS2000. 3 hours credit. Prerequisite: Graduate standing.

EC1 1017, Engineering Management 401, *Systems Architecting*. Approved for SS2000. 3 hours credit. Prerequisite: Graduate standing.

EC1 1018, Mining Engineering 301, *Missouri Mineral Resources*. Approved for SS1999. 1 hour credit. Prerequisite: BS/BA Degree with Teaching Certification. (Co-listed with Geological Eng 301).

The UMR Campus Curricula Committee recommends to the Academic Council that the curricula changes on the following CC1's be approved.

Approved CC1's:

CC1 4691, Mathematics and Statistics 305, *Making Sense of Data for Elementary School Teachers*. Approved new course for SS1999. 3 hours credit. Prerequisite: Graduate standing. Description reads: An activity based course that is intended to provide elementary school teachers with the skills necessary to implement the Probability & Statistics strand of the American Statistical Association of the National Council of teachers of Mathematics (NCTM) joint.

CC1 4692, Metallurgical Engineering 359, *Environmental Aspects of Metals Manufacturing*. Approved new course for WS2000. 3 hours credit. Prerequisites: Junior/Senior standing. Description reads: Introduction to environmental aspects of metal extraction, melting, casting, forming, and finishing. Subjects include history of environmental movement and regulations, permitting, risk analysis, disposal and recycling of metal manufacturing residues, environmental ethics, environmental technologies and case studies.

CC1 4693, Electrical Engineering 231, *Control Systems*. Approved for FS1999. Change in prerequisites from El Eng 265 or El Eng 266 **"TO"** El Eng 262.

CC1 4694, Electrical Engineering 000. Approved curriculum change for FS1999. In footnote #14 of the Electrical Engineering Curriculum, an alternate controls course (El Eng 235) was added to the senior electives.

CC1 4695, Petroleum Engineering 333, *Reservoir Characterization*. Approved new course for FS2000. 3 hours credit. No prerequisite. Description reads: The integration and extrapolation of Geologic, Geophysical, and Petroleum Engineering data for flow model construction.

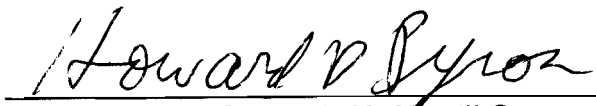
CC1 4696, Petroleum Engineering 360, *Natural Gas Engineering*. Approved new course for WS2000. 3 hours credit. Prerequisites: Preceded or accompanied by Pe Eng 241. Description reads: Gas reserves estimation, deliver ability, and future production performance prediction. Deliverability testing of gas wells including isochronal, flow after flow, drawdown and buildup. Gasfield development and underground storage. Gas production metering gauging and transmission.

CC1 4697, Petroleum Engineering, new Minor program. Approved Minor in Petroleum Engineering effective FS1999. 15 hours required for a minor.

CC1 4698, Psychology 311, *Human Factors*. Approved for FS1999. Change in description to: An examination of human-machine systems and the characteristics of people that affect system performance. Topics include applied research methods, systems analysis, and the perceptual, cognitive, physical and social strengths and limitations of human beings. The focus is on user-centered design technology, particularly in manufacturing environments. (Co-listed with Eng Mg 311.)

CC1 4701, Engineering Management 311, *Human Factors*. Approved new course for FS1999. 3 hours credit. Prerequisite: Psych 50. Description reads: An examination of human-machine systems and the characteristics of people that affect system performance. Topics include applied research methods, systems analysis, and the perceptual, cognitive, physical and social strengths and limitations of human beings. The focus is on user-centered design technology, particularly in manufacturing environments. (Co-listed with Psych 311.)

CC1 4702, Management Systems 000. Approved change in curriculum effective FS1999. In the Emphasis Area of International Affairs: Econ 360 was deleted and replaced with Econ 323. Roman numeral headings were added to the curriculum with course hours.

A handwritten signature in black ink, reading "Howard V. Pyron". The signature is written in a cursive style with a horizontal line underneath the name.

Howard Pyron, for Chair M. Merrill Stevens

Academic "Free Time" Information

The Student Affairs Committee has reached a recommendation on the matter of the referral discussing an Academic "Free Time." The committee asked Laura Stoll, Registrar, to attend their April 2nd meeting so that it could make a more informed decision. The committee was concerned with many issues on this subject ranging from the affected student population to conflicting course scheduling. There were 281 sections scheduled during the Fall 1998 semester between the proposed times of 3:30 p.m. to 6:30 p.m. (Monday thru Friday). Of these 281 sections, only 70 began at 6:00 p.m.. If we were to consider a time period of 4:30 p.m. to 6:00 p.m. the only significant conflict is math and physics common exams. However, only an hour and a half doesn't allow a considerable amount of time for what was **outlined in the referral**.

After thorough consideration the committee decided the most feasible and currently practical decision to be that of an Academic "Free Time" of 4:30 p.m. to 6:30 p.m. on Tuesday and Thursday of every week. There would also be a need to move night classes that are scheduled from 6:00 p.m. to 9:00 p.m. throughout the week to 6:30 p.m. to 9:30 p.m.. Currently the committee is also under the assumption that the common math and physics exams are held on Tuesday and Wednesday afternoons. The committee believes that the best solution for the Tuesday common exam conflict would be to move the exams to Monday afternoons. It is the opinion of the Student Affairs Committee that the suggestions in this referral would be the most efficient use of time and effort in the trial of opening up an Academic "Free Time."

THE CONSTITUTION OF THE CHINESE STUDENTS AND SCHOLARS ASSOCIATION AT UMR

(Passed in 1998)

I. The Name

Article 1: This organization shall be named "Chinese Students and Scholars Association at University of Missouri-Rolla", abbreviated as CSSA.

II. Aims and Objectives of the Organization

Article 2: CSSA is a completely independent and non profit organization mainly representing the Chinese students and scholars at the University of Missouri at Rolla(UMR) from the People's Republic of China. The purpose of CSSA is to serve as the representative of Chinese students and scholars at University of Missouri-Rolla, to safeguard and promote her members' interests, to seek to promote communication and cultural interaction between the different people in the local community, to make everyone here aware of the colorful, rich and diverse Chinese culture that we bring with us.

III. Membership

Article 3: All Chinese students and scholars at UMR and their spouses from the People's Republic of China as well as others who are interested in Chinese culture are qualified to join CSSA.

Article 4: Any UMR student qualified to be a member of CSSA will become a regular member after his formal application and paying the annual membership fee. Regular members shall have the rights to attend all activities, to vote and to stand for election, to propose motions, and the rights to appeal.

Article 5: Associate membership shall be extended to the scholars and those who have an interest in CSSA. An associate member shall pay associate membership dues. An associate member shall have the right to speak but not to vote or hold office.

Article 6: A regular member will lose his membership in one of the following situations: 1, Graduation; 2, Permanent leaving; 3, Self termination; 4, serious misdemeanor against CSSA.

IV. Officers

Article 8: The board of officers is composed of four members: president, vice president, treasurer and secretary.

Article 9: The officers shall be elected by CSSA at its annual meeting during the first month of each winter semester. The nomination of candidates should be announced to CSSA members a week before the annual meeting. The officers shall be elected from candidates nominated, and the candidates get the most number of ballots from the first to the fourth most will hold office.

Article 10: The officers shall fulfill the duty of this constitution, shall execute any resolution by the business meeting of CSSA. The officers represents the CSSA to perform the duty of executive power of internal, foreign, and financial affairs, etc.

Article 11: The officers are in charge of CSSA affairs immediately after the annual meeting for a full year.

Article 12: Duties of Officers

A. President

1. obey and enforce the constitution and bylaws of CSSA,
2. act as the official representative of CSSA for all internal and external affairs,
3. be held accountable to CSSA as a whole,
4. call meetings and preside at meetings of CSSA and Executive Committee,
5. appoint and replace other officers and chairpersons of ad hoc committees as necessary,
6. see that all resolutions passed by a vote of regular members present at business meetings be implemented, and
7. authorize expenditures within CSSA budget.

B. Vice-President

1. act in the official capacity of the President in his/her absence or at the request of the President,
2. serve as Acting President in case the President vacates his/her elected office,
3. coordinate and oversee the work of the Executive Committee and ad hoc committees,
5. be responsible for publicity of issues and events outside CSSA pertaining to CSSA or its members, and
6. see that the Constitution and bylaws of CSSA are followed.

C. Secretary

1. act as recorder of all business brought before CSSA and be held responsible and accountable for all records of CSSA,
2. notify the faculty advisor and the campus of any changes in personnel (i.e., officers),
3. furnish a complete list of names and addresses of regular members, associate members, officers and ~~the~~ faculty advisor ~~and the~~ campus, and
4. see that copies of the current constitution and bylaws are available to new members.

D. Treasurer

1. establish and maintain CSSA's financial and property records,
2. be held responsible and accountable to CSSA for all transactions,
3. provide a financial report on expenditures and treasury balance during the last regular meeting in the Fall and Winter semesters, and
4. collect all dues and fees.

Article 13: If the vacant positions are not more than two, the board of officers can appoint regular members to the vacant seats of the board of officers, otherwise elections will be conducted in the same manner as annual elections. Elections must occur within 4 weeks after the vacancy and be for the

remainder of the term.

Article 14: A hearing shall be held within two weeks after a motion for impeachment has been passed to allow the officer-in-question to defend their position. The vote for or against impeachment is to take place at the meeting following the impeachment hearing. Impeachments will require two thirds vote of all regular members.

V. Advisor

Article 15: CSSA shall have an advisor from the faculty or professional staff at UMR. He/she shall be nominated by the board of officers no later than the regular meeting following the Presidential election and be elected by two-thirds (2/3) of the regular members present at a business meeting. The advisor shall serve for a period of one year and can be re-elected. The advisor may attend Association meetings and shall have right to speak but not to vote.

VI. Dues

Article 16: The annual membership dues may be recommended by the board of officers and must be approved by simple majority of the regular members present at a business meeting. Dues are to be collected at the beginning of the first semester each year. The dues will be paid to the treasurer of CSSA. Change in the amount of dues will require a majority vote of regular members.

VII: Meetings

Article 17: Regular meetings shall be held twice every month in each regular semester, Fall and Winter. There are two major meetings each year: one may serve as a welcome meeting for (new) members, and an Executive Committee agenda for the semester shall be announced; another may serve as a celebration meeting for all members, and a summary report shall be delivered. Special meetings may be called by the President at any time or at the written request of at least one-fifth(1/5) of the regular members of CSSA.

Article 18: A quorum shall be constituted by a simple majority (1/2) of the regular members of CSSA. A quorum must be present to conduct business. Unless stipulated otherwise, two-thirds (2/3) of the regular members present at a business meeting shall be needed to pass all motions, amendments, and the like.

VIII: Constitution

Article 19: The draft of the Constitution must be distributed to every regular member before a formal vote, and two-thirds(2/3) of the ballots are required for its final adoption.

Article 20: The Constitution must be approved by the Student Affairs Committee and by the Academic Council.

Article 21: Proposed constitutional amendments to this Constitution must be submitted to the board of officers in written form by at least one-third (1/3) of regular members of CSSA. The text of a proposed amendment shall then be distributed to all regular members at least one week prior to the final vote for approval of the amendment. Final approval of the proposed amendment requires

a two-thirds (2/3) majority vote of regular members of CSSA. If a proposed amendment receives less than a two-thirds (2/3) majority vote of all regular members, it may not be reconsidered for at least one academic semester. The amendments must be approved by the Student Affairs Committee and by the Academic Council or their designated representative.

IX: Bylaws

Article 22: CSSA shall adopt bylaws as necessary to fulfill the responsibilities and objectives of CSSA. Bylaws must be submitted in written form by regular members only. Amendment or revocation of bylaws shall require a two-thirds (2/3) majority vote of regular members present at a business meeting.

X: University policies

Article 23: CSSA shall abide by all applicable provisions of University Policies for Student Life.

(END)

ACTION ITEMS

Date of Passage	Subject	Referred to:
June 19, 1997	New Policy Memorandum on Video and/or Distance Learning	Dr. Park
October 16, 1997	Elimination of Student Anonymous Complaint Letters	Dr. Park
June 25, 1998	Correction of Salary Deficits with Comparable Institutions	Dr. Park



ACADEMIC COUNCIL

VOL. XXVIII, NO. 7
Minutes of the Academic Council Meeting
Thursday, June 17, 1999

XXVIII, 7. The meeting was opened promptly at 1:30 P.M. with a motion by Professor Ken Robertson to approve the minutes of the April 15, 1999 meeting as distributed. Following a second by Professor Lance Haynes, motion carried. Three substitutions were noted: Lance Williams for Dean Buhite, Ron Kohser for Dean Saperstein, and Hal Nystrom for Don Myers.

.1 REPORTS AND RESPONSES

A. PRESIDENT'S REPORT

1. Professor Perry reported that decisions made recently by the Board of Curators mainly affect other campuses, except the Grievance Procedure changes, which were approved.
2. President Perry also announced that Dr. Lawrence Christensen had received the Thomas Jefferson Award.

B. VICE CHANCELLOR'S REPORT

1. Dr. Gajda emphasized that enrollment continues to be a big concern, and encouraged all to work on recruiting and retention.
 - a. The Vice Chancellor reported that statistics show that from 1986 to 1997, BS Degrees in Engineering declined 30 to 40% in nine states, including Missouri. He said UMR will have to market other programs in addition to Engineering. He also stated that Dr. Park is seeking to add a Business Degree (which is a controversial issue). Dr. Gajda said it would be his job to get this approved by the System and the State.

QUESTIONS AND ANSWERS

1. Professor Robertson asked the Vice Chancellor if there had been any advertising (radio, TV, newspaper ads for UMR), and commented that this is needed. Dr. Gajda said there had been some contact with a national magazine.
2. Professor Lance Haynes inquired as to the number of incoming Freshman. The reply was 747.

.2 REPORTS OF STANDING AND SPECIAL COMMITTEES

A. CURRICULA-Professor Howard Pyron presented the EC1's for information only, and moved to approve the CC1's as distributed. There was a second and motion carried.

B. RULES, PROCEDURE AND AGENDA-In the absence of Bruce Selberg, Professor Jeffrey Cawlfild distributed ballots for Academic Council Committee representatives. These were collected at the end of the meeting for counting.

C. STUDENT AFFAIRS-No one representing this committee was present to present a report.

.3 OLD BUSINESS

A. Professor Lance Haynes moved to postpone action on Writing Across the Curriculum to the September meeting. There was a second, and motion carried.

.4 NEW BUSINESS AND ANNOUNCEMENTS

A. Ben Strehlman, incoming president of Staff Council thanked everyone for a successful Staff Appreciation Day.

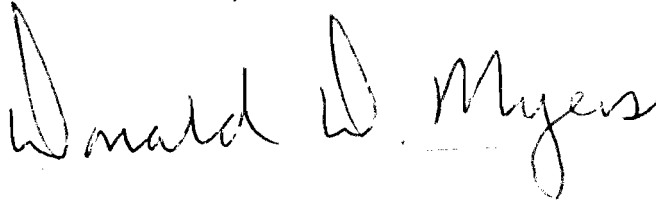
B. There was no report from Student Council.

C. There were no referrals.

There was a motion and a second to adjourn. Motion carried.

Respectfully submitted,

Don Myers
Secretary



*Minutes of the Academic Council are considered official notification and documentation of actions approved.